

MEMAR RESIDENCY, UGAIPUR

ARMY REGULATIONS, INDIA

VOLUME XI

CLOTHING

**Agents for the Sale of Books published by the
Superintendent of Government Printing, India, Calcutta.**

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NEWAR RESIDENCE, 107 YORK

ARMY REGULATIONS, INDIA

VOLUME XI

CLOTHING

(This book is corrected up to 1st February 1944.)



Government of India
Army Department

CALCUTTA
SUPERINTENDENT GOVERNMENT PRINTING, INDIA
[Revised July 1944]

Price Annas 10 or 1 Shilling.

Register of correcting Appendices to India Army Orders entered.

PREFACE.

THIS Volume contains the orders of the Government of India regarding the provision of clothing and necessaries for British and Indian soldiers, etc.

Officers are expected to interpret these regulations reasonably and intelligently, with a due regard to the interests of the public service. No attempt has been made to provide for necessary but self-evident exceptions.

W. R. BIRDWOOD, *Major-General*,
Secy. to the Govt. of India, Army Department.

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ARMY REGULATIONS, INDIA.

VOLUME XI—CLOTHING.

All troops and followers.

General.

1. All troops on the Indian establishment, Indian units serving temporarily in the colonies, followers entitled to be clothed at the expense of the State, and military medical pupils, will be clothed under these regulations. Application of regulations.

2. The A. C. Dept. is charged with the supply to the army of all clothing and necessities, except such as are permitted to be purchased regimentally. The Dept. is administered by the Q. M. G. in I. Organisation of A. C. Dept.

3. Clothing and necessities are supplied from two factories : one at Alipore, Calcutta, and the other at Madras. Each factory is in the executive charge of a Supdt., the senior of whom is also the D. A. C. Sources of supply.

All questions regarding prices will be referred to the C. M. S. A.

4. Boots and all other articles of foot gear are supplied from the Army Boot Depôt, Cawnpore, and the G. I., A. B. performs his duties as such under the orders of the Q. M. G. in I. In addition to his other duties in the Ordnance Dept., the G. I., A. B. is charged with the inspection of the process of manufacture of boots, and is responsible that supplies are in all respects equal to the sealed patterns. The stock of boots ordinarily maintained is detailed in Appx. XIII. Supply of boots.

5. The duty of supplying clothing and necessities is distributed as follows, and indents should be addressed accordingly :—

By the A. C. F., Alipore.	} All units in the	{ 1st, 2nd, 3rd, 7th and 8th Divisions and Bannu, Kohat and Derajat Brigades.
By the A. C. F., Madras.		
	"	{ 4th, 5th, 6th, 9th and Burma Divi- sions and Aden Brigade.

Indents for foot gear will be made on the G. I., A. B., Cawnpore.

6. Indents will be made on the forms and dates shown in I. A. F. Z-2000. Payment indents should not ordinarily be made by the Os. C. units and local heads of depts. more frequently than once in 3 months. They will be made in triplicate and will be signed by Os. C. units in the case of troops and in the case of departments (see also para. 20) by the officer who draws the individual's pay. In the latter case the names of individuals will be shown in I. A. F. Z-2091. The special particulars as to the size specified in the various indent forms relating to clothing should, when necessary, accompany payment indents. Emergent indents must be made under the rules contained in A. R. I., Vol. II. In the case of British troops the requirements of drafts should be anticipated. Changes affecting indents should be at once communicated to the Supdt., A. C. F.

7. Instructions for measuring and fitting are given in Appx. III.

8. British troops moving in relief will ordinarily leave behind, on transfer, all surplus public clothing such as are of a pattern used by the relieving unit. Such transfers will be subject to the acceptance of the relieving officer as regards condition and suitability of sizes. Part-worn public clothing which is transferred, must be in good repair and serviceable condition. Measuring and fitting. Troops moving in relief.

Liability of the soldier.

9. The soldier has no prescriptive right to the description or scale of clothing and necessities allowed him, nor to the money spent thereon, or allowed for their provision. No vested rights.

Upkeep
and replace-
ment.

Unautho-
rized
articles.

Approval
and supply.

To be com-
plete.

Necessaries
of Indian
troops.

Clothing and
necessaries.

Stocks of
clothing and
necessaries and
values.

Money limit
for necessaries.

Terms of
repayment.

Supply of
materials.

10. The soldier is responsible for the safe custody of all articles of clothing and necessaries in his charge. He is also responsible for the execution of any repairs which may be required thereto, including petty repairs to public clothing, and for replacing any article of public clothing which is badly damaged through neglect while in his charge.

11. A soldier will not be required or permitted to wear or pay for clothing or necessaries of a description different from those authorized for him, nor allowed to provide himself with any articles, the supply of which is authorised by these Regulations, by purchase from tradesmen, except such as are expressly required or permitted to be provided regimentally (see para. 2). This does not apply to articles purchased voluntarily for wear at recreation, which may be worn under conditions approved by the O. C. the station.

Patterns.

12. Standard patterns of all articles supplied by the A. C. Dept., approved and sealed by the G. of I., are, with the exception of badges obtained through the W. O., lodged in the A. C. F., Alipore. Duplicates of these patterns sealed by the Q. M. G. in I. are deposited in supplying factories. Duplicate patterns, sealed by the supplying officer, will also be maintained in each unit and used when examining supplies. In the case of British units, these patterns will form part of the stock of personal clothing and necessaries maintained under para. 16, while to Indian units they will be supplied by A. C. F. on payment.

13. The O. C. is responsible that sealed patterns are complete and in serviceable condition. To ensure this, indents should indicate the articles of which new patterns are required. When new patterns are received, the old ones may be used for ordinary issues.

14. Scales and patterns of necessaries of native troops are left to the discretion of the O. C., but all changes must be sanctioned by the Divl. or Indept. Bde. Comdr.

Issues on Payment.

15. Except articles of public clothing for British troops all articles of clothing and necessaries will be issued on payment from A. C. F.

16. British units will maintain a small stock of personal clothing and necessaries as a reserve to meet payment demands from soldier. In the case of personal clothing, the values of stocks so maintained should not exceed the following limit :—

	Rs.
Infantry units	6,000
3rd Sappers and miners to meet the cost of the clothing re- quired for British portion of service companies	180
Aden Section (British portion)	120
Bombay " (" ")	75
Cavalry units	5,000
R. H. A. "	1,500
Ammunition columns	150
R. F. A. units	1,500
" ammunition columns (except 6th and 9th)	500
6th and 9th R. F. A. ammunition columns	700
R. G. A. units	1,000
Mountain batteries	1,000
Heavy "	800

No money limit is fixed for necessaries, but stocks of such should ordinarily be limited to three months' requirements. (See para. 145.)

17. In the case of Indian units if the value of articles issued on payment exceeds Rs. 500, credit may be given in quarterly instalments subject to the proviso that the full amount is credited within the same financial year. In the case of newly raised or reconstituted units, the terms of repayment will be as specially ordered.

18.

19. Materials will not be indented for the purpose of enabling sergeant tailors or others to make up clothing for sale to soldiers or other persons (except as laid down in paras. 20, 64 and 156).

Para. 16.—After 7, add :—

Divisional signal companies, sappers and miners, to meet the cost of $\frac{\text{Oct. Appx}}{\text{I. A. O.}}$
clothing required for British portion of the companies . . . Rs. 350

20. Departmental officers with honorary rank and soldiers on the U. L. are entitled to obtain materials for their uniforms, also necessities, on payment. They are also entitled to have their uniforms made up in a factory, the first issue being invariably so made. Sub-asst. surgeons and Indian military medical pupils are also allowed to obtain clothing on payment from A. C. F. Other officers may indent for any clothing, necessities or materials suitable for their uniforms which may be available or draw them from regimental stores on payment. The above issues, also any, such as to peons, which are made for the convenience of the State are classed as "authorised" within the meaning of A. R. I., Vol. II. All others require the sanction of the administrative officer, but issues of materials to departmental officers with honorary rank and soldiers on the U. L. will, if available, usually be allowed. Those entitled to indent.

21. Price list of clothing, necessities and materials, will be published triennially in I. A. O. Payment issues to regimental soldiers will be made at rates published therein. The C. M. S. A. is charged with the preparation, correction and revision of the price list (See A. R. I., Vol. III). Price list.

22. No payment issues will be made to civilians except when it is necessary for departmental reasons to dispose of redundant, obsolete or damaged stores. Issues to Civilians.

23. Discharged soldiers may be supplied with medal ribbons by cash payment on application to any British unit. Discharged soldiers.

Receipt and condemnation of clothing.

24. In continuation of the instructions contained in A. R. I., Vol. II, the officer who inspects supplies on receipt will compare them with the sealed patterns as regards make, quality, and workmanship. Garments and materials will not be rejected on account of trivial defects and blemishes which do not affect the wearing quality or appearance of the article. In the case of marked defects affecting the wearing quality or appearance, C. Os. will communicate with Supdt., A. C. F., sending him sealed samples of the articles rejected. The Supdt., A. C. F., will carefully investigate the case, and if he concurs in the rejection, he will replace or alter the articles or submit the case to his superior departmental officer, if beyond his financial powers, otherwise he will ask the O. C. to bring the articles before a station board composed of experienced officers forwarding at the same time his own statement of the case for the information of the members of the board. In special cases of complaint the Supdt., A. C. F., may depute a subordinate to explain technical matters to the board. The proceedings of the station board with samples of the articles rejected (in the case of boots 10 per cent. of rejection) will be submitted to the G. O. C. the Divn. or Indept. Bde. the unit is serving in, whose decision, if against the unit, will be final. If, however, this officer upholds the condemnation, the matter will be disposed of according to the amount involved, by himself or the competent financial authority. Action on receipt.

25. In the case of clothing which is defective but which can be made fit for issue, the receiving officer will report to the supplying officer the nature and extent of the alteration and repairs required, and will also obtain and attach to his report a detailed estimate of materials and the cost of the labour required to carry out the work. Thereafter action will be taken as indicated in para. 24. Alterations or repairs.

26. All materials are sealed or stamped at both ends before issue; in the case, therefore, of any deficiency being found, the piece should not be cut, or the marks or seals removed, until a reference has been made to the supplying officer. Deficiencies in materials.

27. When clothing in wear becomes unserviceable or shows defects which indicate some defect in materials or, in the case of boots, workmanship within two months of being issued to the soldier, the matter will be dealt with as laid down in para. 24. Clothing unserviceable prematurely.

38. A personal first free issue of an identity disc (with cord) will be made to staff officers; British officers with British and Indian units, including S. and T. Corps; Indian officers; officers M. W. S., R. A. M. C., I. M. S., A. V. C. and O. Dept., except those who have already received a free issue before arrival in India. Thereafter, the article will be kept up at the expense of the officer. The discs (with cords) will be issued to regimental officers from the reserves maintained in their units, and marked regimentally; those of other officers will be obtained on-indent from, and marked in, A. C. F. Free issue to staff officers.

British Troops.

Personal clothing, necessaries and allowances.

Classification.

39. The articles classified as personal clothing, the periods of wear and the scale upon which they will be maintained, are detailed in Appendix VI. The periods are fixed for purposes of assessing clothing allowances and also claims for losses under para. 144. The articles classed as necessaries and the scales upon which they will be maintained are detailed in Appendix X. Free issues in kind, and a quarterly clothing allowance for the provision of articles which are to be kept up, but of which issues in kind are not authorised, and for the upkeep of all the articles detailed, are as authorised below. The clothing allowance will be drawn quarterly in advance on "clothing quarter days, viz., 1st January, 1st April, 1st July and 1st October. Articles to be kept up.

40. A soldier enlisted, or re-enlisted, in India, or rejoining on cancellation of discharge, or from the reserve, will receive a free issue of the personal clothing and necessaries "to be kept up" (Appendices VI and X). Military medical pupils will receive a similar free issue of clothing. The above classes will, on the fourth quarter day following, receive the sum of Rs. 22-14-0 and a quarter's clothing allowance, the latter being drawn subsequently quarterly. Medical pupils will not, however, receive the sum of Rs. 22-14-0. Free issues.

41. Boys enlisted in India will receive a free issue of the personal clothing and necessaries "to be kept up" (Appendices VI and X). Personal clothing outgrown or worn out will be replaced at the expense of the State at the discretion of the O. C., until such date as boys are struck off the roll of boys: the garments outgrown will be sold for the benefit of the State. They will be credited with the clothing allowance from the quarter day succeeding the date of their being struck off the roll, or of their completing 12 months' service, whichever is the later date. To the first clothing allowance will be added the accumulated amount of kit allowance at the rate of two annas *per diem*, from the date of being struck off the roll, or of commencing their seventh month of service whichever is the later. Rules for boys.

42. Boys arriving in India from the United Kingdom or the Colonies will be similarly treated except that on arrival they will receive a free issue of only such articles of personal clothing and necessaries of the scale "to be kept up" (Appendices VI and X) as are not already in their possession. Boys arriving in India.

43. In the case of outgrown garments in possession of soldiers under 18 years of age who, being on the establishments, are not treated as boys and have drawn clothing allowance, the following rule will be observed:— Outgrown garments.

When G. Os. C. are satisfied that a new issue has become necessary and that due attention was paid, when fitting, to the instructions in Appx. III the unexpired value of the garments requiring replacement, will be assessed by the O. C. the unit, and will be credited to the soldier, the new articles required being issued on payment. The garments outgrown will be sold for the benefit of the State.

44. Soldiers arriving in India from the United Kingdom will receive a free issue of the articles shown under scale "Home," Appx. VI, Troops Soldiers arriving in India.

Corps.	Serial No.	Ranks, etc.	Rates.
			Rs. A. P.
British Cavalry— <i>contd.</i>	8	Lancers. Other ranks entitled to the 1st quality	22 4 0
	9	Hussars. Warrant officers	24 8 0
	10	" Other ranks entitled to the 1st quality	23 15 0
	11	Dragoon Guards, Dragoons and Lancers. Ranks of and above that of serjeant not entitled to the 1st quality	21 4 0
	12	Hussars. Ranks of and above that of serjeant not entitled to the 1st quality	21 2 0
	13	Dragoon Guards, Dragoons and Lancers. Other ranks	20 10 0
	14	Hussars. Other ranks	20 8 0
Royal Field Artillery and Heavy Batteries, Royal Garrison Artillery	15	Warrant officers	22 15 0
	16	Serjeant trumpeters	22 10 0
	17	Other ranks entitled to the 1st quality	22 0 0
	18	" " except gunners, and artificers ranking as such, but including shoeing smiths and 6 gunners per battery. (In heavy artillery 8 Gunners per battery)	20 8 0
	19	Other ranks	20 3 0
Mountain Artillery.	20	Warrant officers	23 9 0
	21	Quartermaster-Serjeant	23 6 0
	22	Other mounted ranks entitled to the 1st quality	22 11 0
	23	Other dismounted ranks entitled to the 1st quality	21 6 0
	24	Other dismounted ranks	19 11 0
Other Royal Garrison Artillery.	25	Other mounted ranks.	20 4 0
	26	Warrant officers	20 15 0
	27	Quartermaster Serjeant	20 12 0
	28	Other ranks entitled to the 1st quality	20 0 0
	29	Other ranks	18 7 0
Royal Engineers *	30	Pensioned serjeants of R. A. employed as park serjeants	8 9 0
	31	Ranks entitled to the 1st quality	20 14 0
	32	Serjeants	19 10 0
	33	Other ranks	18 7 0
Rifles (except Scottish).	34	Warrant officers	21 2 0
	35	Other ranks entitled to the 1st quality	20 6 0
	36	Serjeants, Band and buglers	19 2 0
	37	Other ranks	18 14 0
Scottish Regiments (except Rifles).	38	Warrant officers	21 4 0
	39	Serjeant drummers and buglers	21 8 0
	40	Band Serjeants	21 10 0
	41	Other ranks entitled to 1st quality	20 12 0
	42	Serjeants	19 8 0
	43	Bandsmen	19 5 0
	44	Drummers and buglers	19 1 0
	45	Other ranks	18 14 0
Scottish Rifles	46	Ranks entitled to 1st quality	19 15 0
	47	Serjeants	19 9 0
	48	Bandsmen and buglers	19 4 0
	49	Other ranks	19 2 0
Kilted Highlanders (including Pipers, H. L. I.)	50	Warrant officers	23 6 0
	51	Serjeants, drummers and buglers	23 11 0
	52	Band serjeants, also serjeant piper, H. L. I.	23 12 0

* The allowances are increased by fourteen annas in the case of the mounted detachment.

Clothing allowance as for the mounted detachment of R. E. is also authorized for nine men (including six mounted signallers) of each Divisional Signal Company undergoing training in mounted duties and for non-commissioned officers and men of No. 41 Wireless Signal Company after completion of their period of probation.

Corps.	Serial No.	Rank, etc.	Rates.
			Rs. A. P.
Kilted Highlanders (including Pipers, H. L. I.) —contd.	53	Serjeant piper, Royal Highlanders	24 4 0
	54	Other ranks entitled to 1st quality	22 14 0
	55	Serjeants	21 0 0
	56	Bandsmen and pipers except Royal Highlanders, but including pipers, H. L. I.	21 2 0
	57	Drummers and bugler	20 1 0
	58	Pipers, Royal Highlanders	21 6 0
	59	Other ranks	19 14 0
Highland Light Infantry (ranks wearing trews).	60	Warrant officers	22 2 0
	61	Serjeant drummers and buglers	22 7 0
	62	Band serjeant	22 8 0
	63	Other ranks entitled to 1st quality except serjeant piper	21 10 0
	64	Serjeants	19 13 0
	65	Bandsmen	20 1 0
	66	Drummers and buglers	19 4 0
Other Infantry †	67	Other ranks except pipers	19 1 0
	68	Warrant officers	21 7 0
	69	Band serjeants	21 9 0
	70	Serjeant buglers or drummers	21 7 0
	71	Other ranks entitled to the 1st quality	20 11 0
	72	Serjeants	18 13 0
	73	Bandsmen, drummers or buglers	18 8 0
Army Ordnance Corps. ‡	74	Other ranks	18 5 0
	75	Warrant officers	21 6 0
	76	Other ranks entitled to the 1st quality	20 12 0
	77	Staff serjeants	19 5 0
Army Schoolmasters.	78	Other ranks	18 9 0
	79	Warrant officers	23 7 0
Viceroy's Band	80	Non-commissioned officers	21 15 0
	81	Serjeant major	37 12 0
Band of Governor, Bombay.	82	Other ranks	32 13 0
	83	Serjeant Major and quarter master serjeant	28 8 0
Band of Governor, Bengal.	84	Other ranks	24 5 0
	85	Quarter master serjeant	25 4 0
	85A	Sergeants	24 9 0
	85B	Other ranks	24 6 0
Unattached List (except departmental warrant officers and any in receipt of consolidated pay or pay including clothing).	86	S. and T. Corps, soldiers employed on military Farms, in the A. R. D., in veterinary hospitals and cavalry school	22 0 0
	87	Others	20 9 0
Military Medical Pupils.	88	All ranks	5 2 0

† The allowances are increased by one anna in the case of the Royal Welsh Fusiliers.

‡ The allowances are increased by nine annas in the case of armourer serjeants attached to British cavalry regiments.

NOTE 1.—The rules for the U. L. will not apply to the serjeant major, Imperial Cadet Corps, who will continue as if a regimental soldier.

For British soldiers borne on the Indian establishment, serving in North China each rate will be increased by Rs 2-5 for the provision of additional warm clothing.

NOTE 2.—The rates of quarterly clothing allowances will only be revised triennially concurrently with the price list of clothing and necessaries (see para. 21).

NOTE 3.—In the case of any change in pattern, whether the new pattern is dearer or cheaper than the old or existing pattern, the rates of clothing allowance and the rates in the price list will not be altered until the next general revision of the price list.

Para. 67.—At the end add—

NOTE 4.—An acting schoolmaster serjeant granted the status of lance-serjeant will *July Appr.—69*
I. A. O.—1914.

Miscellaneous allowances.

68. The following allowances are granted for the services stated :—

	Rs.	A.	P.	
(a) For marking authorised free issues of personal clothing, articles of sea kit also free kits and for remarking each article of personal clothing and necessaries of soldiers transferred from one unit to another in the interests of the service (see para. 104)	0	0	3	Marking.
Exceptions.—Sponges, sashes, shaving brushes and jerseys. The same allowance is granted for marking or re-marking public clothing.				
(b) For the purchase of two pairs of stockings for each woman or child under para. 72	2	8	0	Stockings.
(c) For the purchase of canvas clothing for limber gunners yearly—				Canvas clothing.
Each R. H. A. and R. F. A. Battery (Higher Establishment)	42	0	0	
Each R. H. A. and R. F. A. Battery (Lower Establishment) and Heavy Battery	27	0	0	
Each R. H. A. Ammunition Column	24	0	0	
Each R. F. A. Ammunition Column	90	0	0	
(d) For the purchase of fuel for the tailors' workshop of each regiment, yearly	48	0	0	Fuel.
(e) Towards the purchase of plain clothes on discharge with permission to transfer to the Army Reserve or to reside in India or the Colonies—				Plain clothes.
Ranks in class (a), para. 69	12	0	0	
Others of and above the rank of serjeant	6	0	0	
Lower ranks	4	0	0	
(f) For fitting each pair of knee boots drawn	0	5	0	Fitting and making.
(g) For making or fitting and altering clothing issued free to British regimental soldiers.	* As fixed in I. A. O. or by the Q. M. G. in I.			
(h) —				
(I) For repairing public clothing when the cost is chargeable to the State (see para. 10).	As fixed by O. C.			
(II) For altering personal clothing when the cost is chargeable to the State, and when the allowances are not included in the price list published periodically in I. A. O.	As fixed by Supdt., A. C. F.			

(i) For the purchase, from A. C. F. of gymnasium clothing :—

	Rs.	A.	P.
Staff instructors, central gymnasia; paid physical training instructors and paid assistant physical training instructors of units, yearly	9	8	0
Soldiers on selection for preliminary training regimentally, prior to joining a central school, for the appointments above	9	8	0

* An addition of 25 per cent. to the rates for making, fitting, and alterations is authorised for troops in the Western Circle, except those serving in the Aden and Belgaum Brigades; and 30 per cent. for troops serving in the Aden Brigade. When issues of materials to be made up regimentally, stationed in the hills an addition of 25 per cent. is admissible. These extra allowances are admissible on both free and payment issues.

Final disposal.

70. The personal clothing and necessaries of men who die, desert, or leave the colours in India will be sold and the proceeds credited to their accounts. In the last case only white drill clothing, ankle boots, putties and underclothes may be retained by the men. Disposal of effects.

71. A soldier may, with the permission of the O. C. his company, dispose of any article of personal clothing in excess of a complete kit. If disposed of to a soldier the article will be re-marked accordingly, but if to anyone else, all badges, buttons, lace or braid will be first removed and the clothing will be otherwise so altered, that it cannot be recognised as having been used as a uniform of the regular army. In the latter case sales will only be effected through C. Os. Sale of personal clothing.

Sea-kit.

72. The following articles will be supplied to entire British units and to individual British regimental soldiers and those of the Viceroy's Band and their families, except insanes, before proceeding to the United Kingdom also, provided that they proceed to the United Kingdom on the first available opportunity after the death of their husbands, to the widows and their children (if any) of British regimental soldiers and of those of the Viceroy's Band, who die in India. Troops going home.

Drawers, flannel	2 pairs to each man not in possession of cloth trousers or cloth pantaloons. "Tartan" pantaloons or trousers are not classed as "cloth" ones.
Serge, white, lining	One length ($1\frac{3}{4}$ yards) to each man to line one frock.
Socks, worsted	2 pairs to each invalided man.
Stockings, worsted	2 pairs to each woman or child. Compensation to be drawn, vide para. 68 (b).
Vests, flannel	2 to each invalided man.
Flannel, white, imitation Welsh	One length ($4\frac{1}{4}$ yards double, or $8\frac{1}{2}$ yards single width) to each woman or each child.

Issues under this rule are not authorised for:—

- (i) Soldiers or their families proceeding home on furlough except for the family if invalided.
- (ii) Men remanded from the U. L. for discharge.
- (iii) Volunteer instructors or their families.
- (iv) School mistresses and their families, except in the case of school mistresses whose husbands are soldiers at the time.

73.

74. Insanes will be treated as "Cot" or "Ordinary" and supplied, in particular cases only, by the S. and T. C. articles of extra clothing as may be considered necessary at the port of embarkation.

Public clothing.

75. The articles which are classified as public clothing are issued to the soldier and is ultimately returned to the scale shown in Appx. VII and in the following.

76. Indents for public clothing will be made on the 1st June and 1st December each year.

Exclusive of articles in possession of the soldier, the public clothing (except arm badges, canvas waders and waterproof clothing) shall not exceed sufficient for 2 per cent of each unit. Articles required as well as those required for soldiers, will be included.

Examination.

Public clothing will be examined each year in time to enable half-yearly indents to be sent in by the prescribed dates. Apart from these periodical general inspections Os. C. will personally satisfy themselves by frequent inspections that every man in the unit is at all times in possession of articles of public clothing, particularly a great-coat and haversack, fit for service in every respect.

Condemnation.

77. Public clothing will be condemned by, and replaced under orders of, Os. C. units. The condemned public clothing will be disposed of locally by Os. C. units under orders of Supdt., A. C. F., or in the case of articles of foot gear, the G. I. of A. B. Orders for disposal will be obtained on I. A. F. Z-2098 which should be attached to the half-yearly indents.

Transfers.

78. A soldier who is transferred will take such public clothing in his possession as is worn in his new unit. He will in any case take a great-coat, if required for the journey, and this will in no case be returned, but issued to a man going home, if not of the pattern worn by the unit. The clothing will be transferred on I. A. F. Z-2096.

Free issue of new public clothing.

79. A soldier transferred to the U. L. (except when drawing consolidated pay, or pay including clothing) will receive a free issue of new public clothing on the scale kept up in his new position, which will be condemned by and replaced under the orders of his O. C. If remanded for duty within 5 years the clothing will be handed into regimental stores.

Men going home.

80. All British units and details (except time expired men and invalids) reverting to the Imperial Establishment, shall be in possession of serviceable *drab* great-coats and other serviceable articles of public clothing. The withdrawal of serviceable articles from men accompanying units and from details proceeding to the United Kingdom (except time expired men and invalids) and the substitution of inferior ones is strictly prohibited. In the case of time expired men and invalids proceeding to the United Kingdom the public clothing will be withdrawn, and they will be supplied instead with great-coats and haversacks as prescribed in the Discharge Regs. The great-coats should be taken from the condemned stock or, failing that, from the oldest on charge. The haversacks should be *serviceable*, but taken from the oldest on charge.

Garments outgrown.

81. Great-coats which are outgrown by the wearers may be exchanged. The pockets of part-worn garments will be turned inside out on receipt in store.

Stoppages for replacements.

82. A soldier who is ordered to pay for public clothing under para. 10, will be charged the original value of the article replaced, less the monthly rate of depreciation for the period it was in use. If, however, great-coats are returned to store fit for issue to men going home, the worn-out value will be deducted from the charge made. The worn-out value is, in any case, the minimum charge to be made. In reckoning the period in use the month of issue will be counted and the month in which lost, etc., disregarded. Part-worn articles will be issued in replacement if available. (See also para. 116.)

Stoppages for damage.

83. If the period during which an article would otherwise last is shortened through the neglect of the soldier, he will be ordered by his O. C. to pay some proportion of the value thereof.

84. The following scale of shoes, gymnasium, is authorised:—

	Pairs.
Central gymnasium	200
Pachmarhi Depôt	18
Kasauli, Ranikhet and Kailana, each	50
Each cavalry unit	36
Each infantry unit	100
Each battery or company R. A. or detached wing, and Darjeeling depôt, each	30
Landour depôt	25

Magazine clothing.

85. Magazine clothing is allowed for fort armaments, batteries (R. H. A., R. F. A.) armed with Q. F. Guns, and R. G. A. as required, but not exceeding one jacket, pair of trousers, and pair of magazine shoes, for each shell or cartridge lift, two of such sets per shell or cartridge store, four per battery and six per magazine or laboratory. Two pairs of shoes, magazine only, are allowed for the shell and

cartridge store at Malapuram. Three pairs of boots, magazine, are allowed for each main magazine.

Waterproof
clothing.

86. Waterproof clothing is allowed as follows :—

Coats, waterproof, with hood and leggings—

One per man for five per cent. of the normal strength of the garrison during the rains in stations having a normal annual rainfall in excess of 70 inches. The stations at which it is thus authorised are detailed in Appx. V.

Coats waterproof (without hood) and leggings—

One for each armament artificer, except at Aden and Karachi and those attached to mobile artillery.

Cloaks, waterproof—

One per rider of each M. I. pony in Burma.

Waterproof cloaks will be worn only when specially authorized by station order.

Leggings will be issued during the monsoon season to ten per cent. of the M. I. serving in Maymyo.

87. Thirty suits of canvas clothing are allowed for each company of R. G. A. at coast defences, and at Roorkee, for wear by men employed in mounting and dismounting heavy ordnance. Canvas clothing is also allowed as follows :—

For each armament artificer in India, and each R. G. A. smith or permanent assistant to an armament artificer at Rangoon, Roorkee, the Hooghly defences, and Quetta. } 2 suits.

For each R. G. A. smith or permanent assistant to an armament artificer at Aden, Bombay and Karachi. } 2 pairs of trousers.

For each temporary assistant to an armament artificer at the places named. } Half the above scales.

88. Twelve pairs of waders are allowed for the R. G. A. at the Hooghly defences, and will be borne on charge of a company detailed by the C. R. A. Waders.

89. One coat, warm, troops, is allowed for each regimental soldier at Quetta and in the Peshawar Valley except, in the latter case, to those in possession of wadded coats. In the case of troops arriving after the 15th March, the issue will not be made until the following 15th October. Quetta clothing.

The coats will be indented for on the S. & T. Corps, and condemned when necessary by that corps.

90. The spurs and spurs traps included in para. 66 being articles of public clothing, will be kept on charge of each Divnl. Signl. Company for the use of probationers who are required to be trained in mounted duties, and will be expected to last the prescribed period of wear.

91. The following issues of clothing in kind are authorised for the N. C. O. in charge of Transport and the R. E., N. C. O., attached to the Sapper and Miner Company at Chitral :—

Articles.	S. & T. N. C. O.	R. E. N. C. O.
Blankets, barrack, No. . . .	1 Annually . . .	1 Annually.
Boots, Ammunition, Prs. . . .	2 " . . .	1 "
Caps, Balaclava, No. . . .	1 Biennially . . .	1 Annually or at each relief if garrison remains longer than 1 year.
Coats, warm, troops, No. . . .	1 " . . .	
Mittens, Prs.	1 " . . .	
Putties "	2 Annually . . .	1 Annually.
Socks, worsted, Prs.	4 " . . .	4 " . . .

Head
measures.
Officers'
patterns.

92. One "measure, head, brass," is authorized for each unit.

93. A box of scaled patterns of officers' lace, etc., is kept in each regiment and in the office of each Lieut.-Col., R. A. In the former case regiments leaving India will take the box with them showing it on A. F. H.-1167 [see para. 134 (c) (i) (VI)]. In the latter case the box will be handed over from one brigade to another on relief.

When boxes of scaled patterns of officers' lace, etc., need renewal, a station board will be assembled and place on record detailed reasons for replacement. If the recommendation of the board is approved by the G. O. C. Divn. or Indept. Bde., the O. C. unit will forward an indent to the D. A. C. accompanied by the proceedings of the Board and the sanction of the G. O. C. The D. A. C. will then arrange for the supply of the articles required.

Station
stores.

94. The articles referred to in paras. 84 to 89 will be treated as station stores though borne on the clothing ledger.

Badges.

95. Chevrons and badges authorised to be worn are shown in the appendices noted below :—

Chevrons, badges of rank and for good conduct	Appx. VIII.
Badges for skill-at-arms, shooting, signalling and driving	V
Cap, collar and shoulder badges	X
Arm badges (cavalry)	IX

The following free issues are authorised, all other badges being issued on payment :—

(a) Badge detailed in Appx. IV.

(b) Chevrons and badges of rank for great-coats as detailed in Appx. VIII.

(c) Chevrons and good conduct badges for khaki and white drill frocks—one set for khaki and one for white, for new arrivals only.

(d) Metal badges for white drill frocks (see foot-note (h) to Appx. VIII). One set for new arrivals only.

(e) Metal badges for wear with khaki and white clothing a first free issue one set for khaki and one set for white for new enlistments only (see para. 40).

(f) Cap and collar badges on the scale authorised in Appx. VII.

(g) Second class scouts' badges to the extent laid down in para. 97.

How worn.

96. Chevrons and badges are worn in the manner indicated in Appx. XI.

97. Metal Scouts badges, home pattern, for 1st and 2nd class British cavalry scouts, and for 1st class British infantry scouts, and "S" within laurel wreath for 2nd class British infantry scouts, and for Indian infantry and Indian cavalry, are obtainable on payment from A. C. F. A free issue of 2nd class scouts badges up to a limit of 23 per battalion is authorized for each British infantry battalion arriving in India each year.

Marking Clothing and Necessaries.

Public
clothing.

98. Public clothing issued to individuals will be marked with the initials of the regt. or corps, the soldier's number, and the month and year of issue. When an article is re-issued to another soldier a line will be drawn through the old regimental number and the new one inserted thus :—

	First marking.	Second marking.
Corps	R. I. R.	R. I. R.
Regt. No.	8	7412 1520
Month and year of issue	4/02	4/02
Or for cavalry regt.	7 D. G.	7 D. G.
Corps No.	3	3 27
Month and year of issue	1/06	1/06

99. If the article is transferred to another regiment a line will be drawn through the initials of the old corps, and the initials of the new one substituted. Transfers.

100. Articles issued for trial, unless forming part of the regular supply, will not be marked. Experimental articles.

101. Waterproof, magazine, and other clothing, which is not for the sole use of the individual, will be marked with a serial number and date of issue.

102. Personal clothing will be marked with the initials of the regiment or corps, the soldier's number, and the month and year of issue. Personal, Clothing and Necessaries. If the article is disposed of to another soldier the marking will be corrected thus :—

	First owner.	Second owner.
Corps	R. I. R.	R. I. R.
Reg. No.	<u>4167</u>	4167 <u>4269</u>
Month and year of issue	<u>4/02</u>	<u>6/02</u>
Or for cavalry regt.	<u>7 D. G.</u>	<u>7 D. G.</u>
Corps No.	<u>3</u>	<u>27</u>
Month and year	<u>1/06</u>	<u>3/06</u>

103. Soldiers' necessaries will be marked with initials of the man's regiment or corps, and his regimental or corps number.

104. The personal clothing and necessaries of soldiers transferred to another regiment or corps will be re-marked, but those of transfers between units of the same regiment or corps will retain the original marking. Re-marking.

105. Re-marking will be done in paint of a different colour from that of the original marking. The marks to be placed upon articles of public and personal clothing and necessaries, and upon clothing condemned for sale, are detailed in Appx. XVI. General instructions.

106. Implements for marking are allowed on the scale shown in the A. T. Spurs will be marked by Regimental artificers free of charge. Implements.

Deserters.

107. On being declared a deserter the soldier's personal clothing and necessaries will be sold, the proceeds being credited in his account. Disposal of effects. Any public clothing deficient will be struck off charge supported by an extract from the proceedings of the court of inquiry.

108. On rejoining from desertion a soldier will be granted clothing allowance as from the first day of the quarter in which he rejoins, unless he has already received it for that quarter, and will be placed under stop-pages for whatever articles are needed to complete his kit. He will also be charged the value of public clothing deficient on desertion. On rejoining.

Prisoners.

109. A soldier who is committed to military prison or detention will take with him the whole of his personal clothing and necessaries. Deficiencies will be made good on payment to complete the following scale :— Kit on commitment.

Serge (or tartan) frock	1	Razor and case	1
Khaki suits	2	Tartan, serge or cloth trousers	1
Gaiters or putties, pairs	1	White suits (if the term include any part of the hot weather), except at Quetta	1
Helmet, complete	1	Boots, ankle, or shoes, pairs	1
Cap	1	Brass, button	1
Bag, kit	1	Brushes	all
Blacking, tin	1	Comb, hair	1
Braces, pair	1	Fork	1
Holdall	1	Shirts	1
Housewife	1	Soap, piece	1
Jersey or cardigan jacket	1	Socks, pairs	3
Knife, table	1	Spoon	1
Dubbing, tin	1		
Pipeclay and sponge	1		
Towels			

Public
clothing.

110. A soldier committed to military prison will also take with him a great-coat and haversack.

Men for
discharge.

111. A soldier committed to military prison who is about to be sent to England will, on commitment to prison, be supplied with the sea-kit laid down in para. 72, while any articles in excess of the scale laid down in para. 109, which may be in his possession, will be sold and the proceeds credited to the State.

Men
discharged
in India.

112. A soldier committed to military prison who is discharged in India as a bad character will receive a suit of plain clothes provided by means of the allowance referred to in para. 68 (e), and may retain the articles detailed in para. 70. The remainder of his personal clothing and necessaries will be sold and the proceeds credited to the State.

113. Soldiers committed to civil jails who are to be discharged from the Army will take with them to prison only the uniform actually necessary for the journey; also their serviceable articles of regimental necessaries and ankle boots (or Highland shoes). The clothing only will be brought back by the military escort; or if the prisoners are conducted by a civil escort, it will be returned by the jail authorities direct to units concerned for disposal, with any other articles in regimental custody as follows:—

The public clothing will be returned to stores, and all other articles dealt with under para. 112.

On discharge from prison, or on transfer to United Kingdom, ex-military convicts will be provided by the prison authorities with the prescribed civilian kit.

Clothing to
which
entitled.

114. While in military prison or under detention men will be entitled to clothing allowance under the ordinary rules. Any necessary replacements of clothing, or issues to complete kits on release, will be made at their expense. Men committed to civil jails who are to be discharged from the Army will not receive clothing allowance.

Ledgers, forms and accounts.

Ledgers
used.

115. The ledger and forms used in connection with clothing and necessaries are detailed in I. A. F. Z-2000 and 2001. They contain instructions for their preparation and disposal.

116. Public clothing is accounted for in the public clothing ledger (I. A. F. A.-74). These ledgers will be closed annually (on 31st March for artillery units and 30th September for all other units) and despatched for audit to the C. M. S. A. The ledgers will be accompanied by vouchers numbered serially supporting the receipt and issue transactions, the voucher number being noted against the correspondence entry in the ledger. Every unit will maintain, as a regimental record, a nominal register showing the date of issue of every article of public clothing in possession of individuals. This will be used in assessing the recoveries to be made from soldiers for public clothing lost or destroyed, for preparing the statement of public clothing taken away by a unit on leaving the country, and on any other occasions on which the date of issue of an article of public clothing is required.

117. Os. C. units are direct accountants as regards public clothing only. Articles of personal clothing and necessaries are to be accounted for through the medium of "Liability Certificates"—*vide* instructions for the payment of British troops serving in India."

Attaching
individuals.

118. Individuals entitled to public clothing but not serving under an accounting officer will be attached by the G. O. C. Divn. or Bde. for purposes of supply to another unit similarly clothed.

119. The allowances granted under para. 68 will be drawn as occasion for incurring them arises; in the case of yearly allowances a proportionate sum should be claimed if the unit is due to leave the country before the expiration of the period for which the allowance is drawn.

Change of
quartermasters.

120. The principles laid down in A. R. I., Vol. II, for the transfer of government property on making over charge are applicable to a change of quartermasters in the cavalry and infantry.

Para. 119.—After line 5, add—

“ 68 coats, waterproof with hood, are allowed for the Indian troops stationed at Buxa. ”

*Oct. Appx.—10.
I. A. O.—1914.*

Transfer clothing statements.

121. Transfer clothing statements, I. A. F. C-838, will be completed and despatched as directed thereon whenever a soldier is transferred or leaves the country on being struck off the Indian establishment—all articles of necessaries and public and personal clothing in wear will be shown therein. The month and year of issue will be shown in the case of public clothing only. If clothing allowance has been drawn, that last drawn will be recorded as under—

"Clothing allowance, viz., R last drawn on"
If clothing allowance has not been drawn this fact will also be noted.

122. In the case of transfers in the country an abstract of the public clothing, prepared in duplicate, on I. A. F. Z-2096 (ordinary receipt and delivery vouchers), from the transfer clothing statements, will also be sent to the O. C. of the unit to which the men are transferred.

123. Transfer statements will be carefully compared with the articles in possession of the soldier before he leaves the unit. After the statement has been signed by the soldier he will be responsible for the articles shown to be in his possession. On arrival at the new unit the articles in possession of the man will immediately be compared with the statement and the public clothing will at once be entered in the clothing ledger form I. A. F. Z-2096, one copy of which will be signed and returned to the man's former unit.

124. A similar course will be followed when a man is attached temporarily for duty to another unit, unless he remains in the payment of his own unit, when no abstract will be required, and the clothing will not be brought on charge in the clothing ledger. If a man is again moved, the statement will be corrected up to date, signed and transmitted in the usual manner.

125. One haversack will be brought on charge for each man arriving in India, and any deficiencies will be charged for unless a certificate accompanies the man to the effect that he was not supplied with it.

Field service.

126. On joining a field force clothing allowance will cease to be drawn from the first day of the quarter in which a soldier joins a field force at the base. On joining a force.

127. While in the field all will be provided with such clothing, etc., as may be available and as the G. O. C. the force may consider necessary, and no money compensation will be admissible in consequence of any failure of supply. Clothing in the field.

128. On demobilization or arrival at destination, whichever occurs later— On return later—

- (a) Articles which form part of the men's authorized peace clothing and necessaries which have been worn in the field or issues made in replacement, will be surveyed by a station board and the value of any found to be unserviceable, of unsuitable pattern, or deficient, will, under the orders of the competent financial authority (see A. R. I., Vol. III, and I. A. F. A-498), be credited to the men concerned, provided no blame attaches to them or to the corps.

- (b) Clothing allowance will commence as from the first day of the current quarter: but if the campaign has lasted less than three months, from the first day of the following quarter.

129. Men returning from the front prematurely will be dealt with under the above rules except that a board will only be assembled when the amount involved exceeds the financial powers of the O. C. the station. Men returning prematurely.

130. The service rules will not apply except under the specific authority of the C-in-C. Service rules.

Supply of regulations.

Action on arrival.

The entries in the ledgers will be made from the duplicate of A. F. H-1107, which is signed by the Board of Survey held before embarkation, and taken to India by the unit.

(3) Any necessities issued by the R. A. C. D. to complete requirements under para. 319, Home Clothing Regulations, Part I, received subsequent to the unit's arrival in India, will be brought on ledger charge supported by the original copy of the packing account. The duplicate packing account for these articles will be returned by the O. C. through the C. M. S. A.

Interchangeable or equivalent articles.

133 A. Soldiers leaving India will not, unless absolutely necessary to enable them to perform their duties before embarkation, be required to purchase articles included in the undermentioned lists A and B after the unit has appeared in the programme of reliefs, or, in the case of details reverting to the Home establishment, after instructions for their reversion have been received. Such of the articles as are mentioned below in possession of the men will be taken with them except forage caps and cap badges with pins for forage caps all services (except Highland and Scottish regiments wearing Glengarry caps) and soldier-packs for infantry, which must be disposed of prior to leaving India.

(A)—Articles which are not part of the seals for the United Kingdom or the Colonies :—

[illegible]

7

(B)—Articles not of Home or Colonial patterns but which may be continued in wear in lieu of corresponding items in the Home or Colonial scale:—

All services	Frock, drill, khaki	} Colonies only.
	Trousers, drill, khaki	
	Helmet, khaki, with white cover and chinstrap.	
	Trousers, serge or tartan	United Kingdom and Colonies.
Cavalry	Frock, serge	Colonies except Egypt.
	Pantaloon, cord, khaki	} Colonies only.
	Putties	
Royal Artillery	Frock, tartan, except R. H. A.	} United Kingdom and Colonies.
	Pantaloon, tartan	
	Pantaloon, cord, khaki	} Colonies only.
	Putties of R. G. A., except H. B.	
	Shoes, canvas, R. G. A.	United Kingdom and Colonies.
Royal Engineers	Frock, serge	} Colonies only.
	Pantaloon, cord, khaki	
	Pantaloon, tartan	United Kingdom and Colonies.
	Putties	Colonies only.
Infantry	Spats, khaki, Highlanders	United Kingdom and Colonies.
	Putties	} Colonies only.
Army Ordnance Corps	Frock, serge	
	Pantaloon, cord, khaki	
	Putties	} Colonies only.
School-masters	Frock, serge	

NOTE 1.—Jerseys maintained in India as an article of necessities may be continued in wear in place of the cardigan waistcoat worn in the United Kingdom and the Colonies.

2.—The Mountain Battery, R. G. A., serving in Egypt wears Indian pattern clothing.

134. The following action will be taken at least one month before embarkation, by units leaving India:— Action before departure

- (a) The quarterly clothing allowance will be paid before embarkation to men becoming entitled to it—*vide* para. 145.
- (b) Surplus stocks of public clothing, which are suitable, will be offered, on transfer, to other units in the same station, and failing disposal by this means, a return of such stocks will be forwarded to the Supdt., A. C. F., who will arrange for their disposal.
- (c) The ledgers will be closed, balanced, verified, and the following documents prepared:—
 - (i) A. F. H. 1107 (in triplicate) to show whether men are on allowances, and to include the following, each class (as detailed below) being shown separately under its own heading:—
 - (I) Personal clothing (including materials and garniture for such) in regimental stores which are peculiar to the unit and of a description worn at its new station.
 - (II) Personal clothing (including material and garniture for such) transferred from A. C. F. which are peculiar to the unit and of a description worn at its new station.
 - (III) New necessities in regimental stores special to the unit.
 - (IV) New necessities transferred from A. C. F.
 - (V) All public clothing (with dates of issue in the case of articles in wear) such as is used at the new station (except knee-boots and helmet fittings) including colours, serjeant-drummers' staff and belt, and patterns of officers' lace.

NOTE TO CLAUSES (II), (III), (IV), and (V).—Rules for the disposal of made up garments, materials and necessities peculiar to units transferred from the Indian to the Imperial Establishment, or *vice versa*, are contained in paragraph 138. Only such descriptions and quantities of articles should be included in A. F. H.-1107 as the Supdt., A. C. F., may notify.

*Para. 149 (e).—Insert a comma after “ Veterinary Duffadars ” and July Appx.—69
add “ and palanmakers.” I. A. O.—1914.*

Para. 149 (i).—After “ Silladars ” in line 2 add “ palanmakers.”

Para. 149.—Insert as new clause (k)—

“ (k) Pensioned Indian cavalry trumpeters employed at the Cavalry	R
School, Saugor	52 ”

*Para. 149 (h).—For the figure “ 20 ” opposite “ Northern India ”
substitute “ 21 ” and for “ 11 ” opposite “ Southern India ” substitute
“ 14. ”*

Para. 151 (b).—After “artillery” insert “(including trumpeters)” and in second column enter “16-0-0.”

Para. 151.—Insert as new clause (r)—

“(r) Pensioned Indian cavalry trumpeters employed at the Cavalry School, Saugor

R a. p.

14 0 0”

151. The rates of annual clothing allowance authorized are—

Rates of
clothing
allowance.

Branch of the service.	Indian officers.	Ranks wearing gold, silver or silk chevrons or badges of ranks.	Other ranks.	All ranks.
	Rs. A P.	Rs. A P.	Rs. A P.	Rs. A P.
(a) Non-silladar cavalry, also Indian ranks of silladar corps employed at the cavalry school Saugor on non-silladar rates of pay.	16 0 0	18 0 0	17 0 0	...
(b) Mounted combatants of artillery, native riding establishments of the A. R. Dept.	...	18 0 0	17 0 0	...
(c) Dismounted combatants of artillery (except heavy artillery) coast defence establishment.	10 0 0	11 8 0	10 8 0	...
(d) Sappers and miners (including driver establishments) all infantry except classes specifically provided for.	8 0 0	10 0 0	9 0 0	...
(e) Sappers and miners (mounted detachments only) in addition to (d) recruit boys, and 4 men of each divisional signal company.	...	...	...	3 0 0
(f) Infantry clothed in drab	7 0 0	11 0 0	10 0 0	...
(g) Goorkha and Garhwal Rifles, Nepal escort.	8 0 0	10 8 0	9 8 0	...
(h) Men trained as M. I. Burma and men of M. I. detachment at Gyantse, in addition to rates allowed above.	...	...	...	2 0 0
(i) Bullock-drivers of heavy artillery; baggage muleteers of mountain artillery; men of non-silladar transport establishments of the S. and T. Corps (except veterinary dafadars, coolies and bhistis); driver establishments of equipment of mules of pioneer regiments and of No. 15 (Burma) Company, 2nd Sappers and Miners; A. H. Corps; A. B. Corps.	...	...	...	10 0 0
(j) Veterinary dafadars of the S. and T. Corps.	...	...	...	15 0 0
(k) Senior hospital assistants and hospital assistants, I. S. M. D.	12 0 0	12 0 0	...	...
(l) Lascars of fort armaments, store and tent lascars, and tindals and storemen of R. A. units (except ammunition columns) and tindals, and lascars, quartermaster's establishment of the 3 corps of sappers	...	...	...	2 8 0

Para. 151 (m).—For the figure "5" opposite "Northern India" substitute "8" and for "3" opposite "Southern India" substitute "5."

(p) GOVERNMENT ARMY GARDS, Madras

(q) Lascar establishment employed in ordnance arsenals and depots.

* These are half mounting, not clothing allowance.

An allowance of Rs. 5 per annum for the purchase of boots (not shoes) is also authorized for commissioned officers and men of dismounted artillery, ammunition columns, and the 3 corps of sappers, and the coast defence establishments.

This allowance should be drawn in quarterly instalments, in advance, with the clothing allowance.

NOTE.—Men of the late Carnatic ordnance artificers corps still serving will receive money compensation in lieu of issues in kind.

152. The Viceroy's, Bengal and Madras Governor's Body-guards draw issues of clothing in kind.

The following issues are authorised:—

Viceroy's Body-guard.

Articles.	Authorised issues.
<i>All ranks.</i>	
Frock-coat	1 annually.
Pantaloon, cloth, blue	1 pair annually.
Do., cloth, white	1 do.
Girdles	1 annually.
Gauntlets	1 pair annually.
Boots (money compensation, Rs. 18, allowed annually in arrears)	1 do.
Loongi and Kullah (money compensation, Rs. 15, allowed annually in arrears)	1 do.
Spurs, swan neck, silver plated (supplied under regimental arrangements)	1 pair.
Shoulder chains	2 pairs every 20 years.
Cloak	1 every six years, if condemned at the end of that time by a regimental board as being unserviceable.
Shabraques	1 every six years.
<i>Indian officers only.</i>	
Aiguillettes, gold	1 pair quadrennially.
Sling to sword-belt, gold lace	1 quadrennially.
Pouch and pouch-belt	1 do.
Sword knot, gold lace, with acorn	1 do.
Throat ornament (part of horse furniture)	1 triennially, on being condemned by a regimental board.

Bengal Governor's Body guard.

Articles.	Authorised issues.	Mode of supply.
<i>All ranks.</i>		
Blouses, khaki	2 annually.	} Compensation in lieu to be allowed. Locally under regimental arrangements.
Breeches, do.	2 pairs annually	
Putties, serge, blue	1 pair annually	
Kullah, red	1 annually	
Boots, ankle	1 pair annually	
Alkhalik, cloth, scarlet	1 biennially	} To be supplied from A. C. F.
Pantaloon, cloth, white	1 pair biennially	
Kamarband, blue, full dress	1 biennially	} To be supplied under regimental arrangement.
Lungi, blue, full dress	1 do.	
Kamarband, undress	1 do.	
Lungi, undress	1 do.	
Pantaloon, tartan, blue	1 pair triennially	} To be supplied from A. C. F.
Gauntlets	1 „ quadrennially	
Spurs, hunting	1 „ quadrennially if condemned at the end of that period by a board of survey as unserviceable.	
Cloak with cape and belt	1 every six years if condemned at the end of that period by a board of survey as unserviceable.	

Bengal Governor's Body-guard—contd.

Articles.	Authorised issues.	Mode of supply.
<i>All ranks—contd.</i>		
Shabraques	1 every six years if condemned at the end of that time by a regimental board as being unserviceable.	} To be supplied from A. C. F.
<i>N. C. Os. and Sowars.</i>		
Knee boots, cavalry, Hessian pattern.	1 pair triennially .	} Under regimental arrangement.
White full dress kit	2 suits annually .	
Gurgaby shoes	1 pair annually .	

Madras Governor's Body-guard.

Articles.	Authorised issues.	Mode of supply.
<i>All ranks.</i>		
Blouses, khaki	2 annually	} Compensation in lieu allowed.
Breeches, do.	2 pairs annually	
Putties, serge, blue	1 pair do.	} Locally under regimental arrangements.
Kullah, red	1 annually	
Boots, ankle	1 pair annually	To be provided by the men.
Alkhalik, serge, scarlet	1 biennially	} Supplied from A. C. F.
Pantaloon, mole-skin, white	1 pair biennially	
Kummerbund, blue, full dress	1 biennially	} Obtained locally under regimental arrangements.
Lungi, do. do	1 do.	
Kummerbund, undress	1 do.	} To be provided by the men.
Lungi, do	1 do.	
Pantaloon, cloth, blue	1 pair triennially	} Supplied from A. C. F.
Gauntlets	1 pair quadrennially	
Spurs, hunting	1 pair quadrennially	} Supplied from A. C. F.
Cloak, with cape	1 every six years, if condemned at the end of that time by a board of survey as unserviceable.	
Shabraques	1 every six years on being condemned by a regimental board.	Supplied from A. C. F.
<i>Havildars and rank and file.</i>		
Knee-boots, cavalry, Hessian pattern	1 pair triennially	Obtained locally under regimental arrangements.
Frock (Sherwani), drill, white	2 first issue on joining 1 annually	Supplied from A. C. F.

*If condemned at the end of the above period by a board of survey as unserviceable.

153. Clothing allowance will be drawn by the classes and at the rates above authorised, in advance, on the first day of each quarter, except the classes mentioned at (1), who will draw it yearly, in advance, on the 1st April. Transfers will draw the rate of clothing allowance prescribed for the units to which they are transferred, with effect from the first quarter-day following such transfer. The clothing allowance due to recruits and men rejoining the colours from the reserve will be fixed with reference to the number of months remaining in the

Mode of drawing.

quarter, fractions of less than 15 days being ignored. This para. does not apply to officers.

In the case of officers (other than those of (a) the S. and T. Corps, who are included in the transport establishments (except silladars) of the S. and T. Corps referred to in para. 149 (a) and [(b) the I. S. M. D.]) the clothing allowance for six years will be drawn in advance on first appointment, and they will not be entitled to further payments on this account until the 1st April following the completion of seven years' commissioned service, when a year's allowance will be drawn for them, and thereafter annually on the 1st April. A proportionate amount, for the effective period, will be drawn for Indian officers who may become non-effective before that date. In the case of "direct commission" Indian officers' clothing allowance will be paid quarterly, in advance, under the same rules as for the rank and file, until such time as they complete their probation and are confirmed in their appointments. On confirmation they will receive the difference between what they had actually been credited with and the normal advance admissible in ordinary cases.

In all cases in which leave pending retirement is given to persons entitled to clothing allowance, no allowance will be drawn from the day such persons proceed on leave. Men becoming non-effective by discharge or retirement (without first proceeding on leave) or by death or transfer to the reserve, will similarly be entitled to only a proportionate amount of the quarter's allowance for the effective period, the amount overdrawn for that quarter being recovered and credited to Government.

154. In the event of an Indian officer becoming non-effective within six years of his promotion or appointment to the commissioned ranks, a recovery of a portion of the clothing allowance drawn under paragraph shall be made from him or his estates, according to the rates shown in the table below:—

Branch of service.	SUM TO BE RECOVERED AND CREDITED TO THE STATE IN THE EVENT OF AN OFFICER BECOMING NON-EFFECTIVE		
	Within two years of promotion or appointment.	Between two and three years after promotion or appoint- ment.	Between three and four years after promotion or appointment.
	Rs.	Rs.	Rs.
Non-silladar cavalry . . .	56	33	33
Indian mountain batteries . . .	37	28	15
Sappers and miners . . .	21	16	16
Infantry clothed in drab . . .	25	21	7
Gurkha and Garhwal Rifles, Nepal escort and infantry of classes other than those specifically pro- vided for.	26	22	22

155. Clothing will be obtained as follows, all men being required to be in possession of the authorised full dress:—

(a) *Made up and on payment from clothing factories.*

Full dress blouses, frocks, etc., trousers, pantaloons, knicker- bockers, or pyjamas. Also chevrons, badges of rank, and good-conduct badges.	}	For combatants of non-silladar cav- alry, of artillery, sappers and miners (including driver establishments), and infantry; also for coast defence establishment, baggage muleteers of mountain artillery, A. H. Corps.
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(b) *By free issue from clothing department.*

Badges for skill-at-arms, signalling, musketry, etc., as authorised in Appx. IV.

156. Clothing supplied by the A. C. Dept. for ranks wearing gold or silver lace, or for officers, and for 10 per cent. of other ranks, also shoulder

Supply of
clothing.

Clothing made
by A. C. Dept.

pads, will be made regimentally; the rest will be made in factories, unless this is not convenient for departmental reasons.

157. A sum of Rs. 2 per man will be drawn for sappers and miners and native artillery on promotion to the rank of havildar, and for infantry on promotion to any non-commissioned rank in which gold, silver, or silk chevrons are worn. A sum of Rs. 2 per man will also be drawn for infantry soldiers on first promotion to a rank in which a sash is worn. Sashes are worn by havildars and those above that rank in infantry dressed in scarlet. Allowances on Promotion.

158. All Indian ranks in Burma detailed for training in M. I. M. I. clothing. duties will receive one pair of khaki cord pantaloons and two pairs of cotton drawers, the articles being supplied regimentally and the cost of issues charged to the State. Those who qualify will, with effect from the succeeding quarter day, draw the special allowance authorised by para. 151. A man declared by his O. C. to be unfit for further employment in the M. I. will cease to draw this allowance.

158 A. Such of the Indian linemen in each Divisional Signal Company as are required to be trained in mounted duties will, during their period of probation, receive the following articles of clothing in kind:— Divisional Signal Companies.

Drawers	2 pairs.	} each.
Pantaloons cord khaki	2 "	
Spurs, with spur straps and spur rests	1 pair.	

(see para. 90.)

159. Waterproof clothing is allowed as follows:—

Coats, waterproof, with hood, one per combatant for 5 per cent. of the normal strength of the garrison during the rains, in stations having a normal annual rainfall of 70 inches and over. Waterproof clothing.

The stations at which it is so allowed are detailed in Appx. V.

(30 coats, waterproof, with hood, are also maintained at Darjeeling for the use of Gurkha recruiting parties during the rains.)

Waterproof clothing will be treated as station stores, and replaced, when worn out, by requisitions on the A. C. Dept. supported by the certificate of the O. C. that it has become unserviceable.

Gymnasium clothing.

160. An allowance of Rs. 5-8-0 is authorised for the supply of suitable gymnastic clothing to each Indian soldier sent to a central gymnasium for a course of training. The articles required and the scale of issue will be fixed according to local conditions, by the Supdt. of Gymnasias concerned. The clothing will be supplied under local arrangements. Allowances for gymnasium clothing.

Magazine clothing.

161. The supply of magazine clothing on the scale noted below is authorised for the three corps of sappers and miners—

1st sappers and miners.

Head-quarter company . 1 pair of boots, magazine for inspecting officer.

1 pair of shoes, magazine for British ranks.
3 suits of magazine clothing.

2nd sappers and miners.

Headquarter company . 2 pairs of shoes magazine.
3 suits of magazine clothing.

Detached Companies at Rawalpindi, Secunderabad and Mandalay. 2 pairs of shoes magazine each.
1 suit of magazine clothing each.

3rd sappers and miners.

Head-quarter company . 1 pair of boots, magazine for inspecting officer.

1 pair of shoes, magazine for British rank.

The magazine clothing, boots and shoes will be treated as station stores, and will be replaced, when worn out, as in the case of waterproof clothing,—vide para. 159.

Foreign Service.

Special allowances.

162. All Indian troops and non-departmental public followers embarking for service in Burma or at any place outside Indian limits, or on a voyage exceeding 10 days' duration, will, unless they have received field service clothing, be granted allowances of Rs. 13 and Rs. 9 per man, respectively, for the provision of additional clothing. Departmental public followers will be supplied from mobilisation reserves with such articles up to the value of Rs. 9 per man as the G. O. C. despatching the men may consider necessary, having regard to the nature of the duty, the climate of the country in which they are employed, and the season of the year in which they are despatched. Public followers of regiments serving at colonial stations will also be granted a local clothing allowance of Rs. 5, which will be drawn annually in arrears. Indian soldiers on colonial service will also be allowed Rs. 7 per man per annum (which will be similarly drawn) to enable them to meet the increased cost of freight on articles of necessaries obtained from India.

Disposal of old uniforms.

163. The provisions of para. 71 are applicable to Indian officers and soldiers, in whose case, however, the sanction of the company or double company commander to the disposal of such articles will be required.

Special N. W. F. allowances.

164. Special N. W. F. allowances are granted at the rates named below for the provision and maintenance of the additional warm clothing, etc., required to meet local climatic conditions.

Frontier allowance rates.

Classes.	Scale I. (i) Chitral. (ii) Thall (a).		Scale II. (b) (i) Fort Lockhart (Samana)... (ii) Malakand and its dependencies at Chakdara and Dargal. (iii) Jandola. (iv) Drazand. (v) Zam (c).	
	Kit-money.	Clothing allowance.	Kit-money.	Clothing allowance.
	Rs.	Rs. A. P.	Rs.	Rs. A. P.
I. Indian combatants and sub-assistant surgeons. { Other than those of localized units.	20	2 0 0 quarterly	14	2 0 0 quarterly.
II. Public followers {	14	2 0 0 quarterly	14	2 0 0 quarterly.
III. Indian combatants, sub-assistant surgeons and public followers of localized units.				0 14 8 monthly.
IV. Indian ranks and public followers of transport corps and cadres which do not move in relief.				or
V. Indian combatants, sub-assistant surgeons and public followers of detachments relieved at short intervals.	Nil	1 2 8 monthly or 3 8 0 quarterly.	Nil	*2 12 0 quarterly.
VI. Public followers on detachments for a short period only.				

* In the case of Indian ranks and followers of detachments serving for three months and under at stations beyond the North-West Frontier, the frontier clothing allowance may be drawn by the O. C. the unit concerned for the whole detachment and utilised at his discretion. In cases where no allowance is required during the summer months, the O. C. is empowered to draw double rates for the winter.

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Para. 162.—

In line 1 after "troops" *insert* "including "sub-assistant surgeons."

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A. O.—1914.

Para. 162 last line.—Convert full stop into a comma and after the word "India" add "but if a man becomes non-effective before the date on which the full amount is admissible a proportionate amount thereof will be allowed for the effective period. "

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Para. 165 (b).—In the fourth line for the word “drawn” *substitute* “admissible under clause (a) above” and *insert* the following as a note to this sub-paragraph :—

“NOTE.—In cases where frontier clothing allowance is drawn and where the recipients subsequently, within the same year, qualify for frontier kit-money, the amount drawn on account of the former will be refunded on receipt of the latter.”

- (a) For unhutted followers only.
- (b) The concession of frontier clothing allowance is also applicable to conservancy establishments at Fort Lockhart and Hangu.
- (c) Frontier clothing allowance only.

Rules for
payment.

165. The above allowances will be paid and disposed of under the following rules :—

- (a) Frontier kit-money will be paid on account of men proceeding to Chitral before leaving their station in India, and in other cases on arrival at the station at which admissible if they reach such station between the 15th October and 15th March. Otherwise the allowance will be claimed on the 15th October following.
- (b) Frontier clothing allowance will be paid quarterly in advance, but in the case of those who receive the frontier kit-money, the clothing allowance becomes admissible only with effect from one year after the date the kit-money was drawn. Broken periods will be calculated as laid down in para. 153. This allowance should not be drawn on behalf of men under orders to move during the ensuing quarter to a station at which it is not admissible.
- (c) Combatants who move on permanent transfer from a Scale II to a Scale I station will be entitled to a frontier kit-money allowance of Rs. 6 on joining at the latter station.

Troops and followers moving from a Scale I or Scale II station to a station where warm clothing is supplied by the State in kind, and who are already in possession of warm clothing (whether supplied at Government expense or provided out of frontier kit or frontier clothing allowances) will receive only the difference, if any, between the articles or allowances received at their former station and what they would ordinarily receive at their new station, but, when the period of prescribed wear of the articles in possession, reckoned from the actual date of their issue, has expired, an issue in kind of such articles will be made.

- (d) That frontier kit-money and clothing allowances will not be paid to the individual, but will be credited to his clothing account and spent as the O. C. may determine.
- (e) An individual who moves to a place at which these allowances are not given, and then returns to a place where they are, will not be again entitled to frontier kit-money, unless three years have elapsed since he originally received it, and unless he was, before return, six months at a station at which these allowances were not admissible.
- (f) All men in Classes I to IV drawing the above allowances will be required to be in possession of at least a jersey and country blanket obtained on payment, either directly or by another corps originally, from mobilisation reserves. In the case of combatants receiving allowances under Scale I, and public followers under both scales, a deduction of Rs. 4 will be made from the kit-money, unless each man is in possession or is being provided with a warm coat obtained from mobilisation reserves.
- (g) Combatants in possession of field service clothing, and who are retained on the break-up of a field force for garrison duty at places where these allowances are authorised, will, if a station under Scale I, receive on the date of being struck off the strength of the field force, but not until the 15th October if the former date is between the 16th March and 15th October, a kit-money allowance of Rs. 6, and all combatants and public followers will from that date commence receiving the clothing allowance. The extra kit-money is granted conditionally on each man possessing, or being issued, a coat, warm, troops.

Special local allowances.

Local allowances.

166. The following local clothing allowances are authorised for the provision and maintenance of additional warm clothing, etc., required to meet local climatic or other conditions.

Indian soldiers employed as M. I. in Burma.—Os. C. units having M. I. detachments will draw an annual allowance of Rs. 4 per mounted infantry man, calculated on an establishment of one man per pony attached, plus 20 per cent. spare. This allowance is additional to that received under paragraph 151.

Public followers serving in the hills in Burma (including Bhamo and Maymyo).—Rs. 5 per annum if not entitled to clothing allowance under other rules.

Abbottabad.—Combatants of non-localized units receive Rs. 5 on arrival at this station, but those arriving at Abbottabad after the 15th March will not draw the sum before 15th November following. Combatants of localized units will draw Re. 1-12-0 per annum.

Cherat.—The G. O. C., 1st (Peshawar) Division, may draw Rs. 200 annually on account of the combatants and public followers detailed for duty at this station during the winter.

The above allowances may be drawn on the 1st April or any other convenient date annually.

Karachi.—The Indian submarine mining detachment at Karachi is allowed Rs. 40 every third year for the provision of warm coats.

Indian army reserve.

Infantry and other reservists.

167. On the transfer of an artillery, infantry, or sapper and miner soldier or of transport personnel to the reserve, the O. C. his corps will take over from the man, if available in thoroughly serviceable order the following articles of his kit, and send them to the O. C. the training unit for safe custody, the cost of packing and conveyance being debited to the State:—

Artillery reservist.

- 1 great-coat or cloak.
- 1 puggri with fringe, also kullah, if worn.
- 1 kullah, if worn.
- 1 khaki frock, complete with numerals (dismounted men only).
- 1 pair khaki knickerbockers (dismounted men only).
- 1 pair of khaki Jodhpur breeches.
- 1 Khaki drill kurta complete with numerals.
- 1 Khaki Kamarband.
- 1 pair khaki cord pantaloons.
- 1 pair jack spurs.
- 1 haversack.
- 1 pair putties.
- 1 pair socks or foot bandages.
- 1 pair ankle boots.
- 1 water bottle.
- 1 kit bag.

Mounted men only.

Infantry and sapper and miner reservist (except reservists of the traffic and locomotive sections of military railway companies).

- 1 coat, warm, troops.
- 1 puggri with fringe or service hat (as worn by the regiment).
- 1 kullah, if worn.
- 1 khaki blouse complete with buttons and numerals.
- 1 khaki shoulder pad.
- 1 pair khaki knickerbockers.
- 1 pair putties.
- 1 haversack.
- 1 water bottle.
- 1 pair socks or foot bandages.
- 1 pair boots.
- 1 kit bag.

Transport reservist.

- 1 puggri, also kullah if worn.
- 2 suits khaki.
- 1 pair of boots or shoes.
- 1 pair putties.
- 1 haversack.
- 1 kamarband (only by ranks wearing it).

If the above articles are taken over, the O. C. will make a cash payment to the man of—

	Rs. As. P.	
(i) Reservist of an infantry or sapper and miner corps or of a native mountain battery	25	0 0
	If enrolled before 1st January 1904. If enrolled after 1st January 1904.	
	Rs. As. P.	Rs. As. P.
(ii) Reservist of a British mountain battery	12	0 0
(iii) Reservist of a R. H. A., R. F. A. or heavy battery, or of an ammunition column	7	0 0
(iv) Transport reservist	8	0 0

Should any of the above articles be unserviceable or deficient, they will be replaced at the public expense and the cost deducted from the sum allowed by Government. If no articles are taken over, or if discharged men are re-enrolled for the reserve, the full kit will be obtained by the O. C. and the cost debited to the State. In the event of a reservist rejoining the colours, he will take over his reservist's kit and refund its unexpired value, which will be assessed by a regimental committee.

168. For reservists of the traffic and locomotive sections of military railway companies the articles shown in columns 2 and 3 of the following table will be provided free and stored in regimental charge. On mobilisation these articles will be issued to the reservists as well as those shown in columns 4 and 5 :—

Articles.	STORED REGIMENTALLY.†		DRAWN FROM S. AND T. CORPS.	
	Reservists of and above the rank of havildar.	Reservists below the rank of havildar.	Reservists of and above the rank of havildar.	Reservists below the rank of havildar.
I	2	3	4	5
Kullah No.	1	...	...	...
Khaki frock "	1	...	...	...
Numerals Set.	1	1	...	...
Buttons "	1	1	...	...
Boots pair.	1	1	...	...
Putties "	1	1	...	...
Kit bag No.	1	1	...	...
Pagri "	1*	...	...	...
Blouse, khaki . . . . "	...	...	...	...
Blanket, country . . . . "	...	...	...	...
Coats, warm, followers . . . . "	...	...	...	...
Pyjamas, warm pair	...	...	...	...
Haversack No.	...	...	...	...
Water bottle . . . . "	...	...	...	...

* With fringe.

† Without fringe.

‡ The articles stored regimentally will be of the pattern and colour of the colours.

Cavalry reservist.

169. On the transfer of a silladar cavalryman to the reserve no portion of his kit will be taken over. He will join the reserve as a non-silladar reservist. All cavalry reservists will receive, as a free issue, the following articles of clothing, from regimental stores and of regimental pattern, Government being charged through the General State of Accounts of the regiment for the value of the clothing thus supplied, at the rates at which the various articles are ordinarily issued to men of the regiment :—

1 khaki puggri with fringe.	1 khaki kamarband.	1 pair boots.
1 khaki kullah, if worn.	1 pair khaki breeches.	1 pair spurs, complete, with straps.
1 khaki-kurta, complete, with numerals.	1 pair khaki putties.	1 kit bag.
	1 haversack.	
	1 water bottle.	
1 pair socks or foot bandages.		

A cavalry reservist will not be entitled to the grant of Rs. 25 referred in para. 167. In the event of a reservist's regimental kit containing any of the above-mentioned articles which are considered serviceable by a regimental committee, such articles may be purchased from the man and form part of his reserve kit at a value fixed by the committee, and the cost will be charged to Government in the manner prescribed above for new articles.

Renewals.

170. No renewal of any of the above articles at the public expense will be allowed within three years of the date they are taken over or obtained, (except socks or foot bandages which will be renewed biennially after each training), and after that period they will only be renewed at the expense of the State if condemned by the O. C. (O. C. reserve centre in the case of infantry), and with the sanction of the Bde. Comdr. Renewals will be arranged for by the training unit, and, in the case of infantry, in the manner prescribed on I. F. C-853. Articles of clothing will be repaired under the authority of the O. C. reserve centre or training unit. The condemned articles will be sold and the proceeds credited to the State. Reservists of sappers and miners may, however, be allowed to utilize condemned khaki as working suits during their periodical training.

Sale of kits.

171. When a reservist dies or is discharged, the proceeds of the sale of his kit (or, if any articles are not forthcoming, their unexpired value) will be credited to the State.

On mobilization.

172. On being mobilized, each reservist will be supplied with the additional khaki drill clothing required to complete his kit to the service scale. Special field service clothing will not be drawn until issuable in the ordinary course to all troops.

Field Service.

Mounted Infantry men.

173. The rules in paras. 126-130 also apply to Indian troops and transport personal of the permanent establishment.

174. A trained mounted infantry soldier will cease to draw his special allowance under para. 151 (h) while on field service, but if actually employed as a mounted infantry soldier while on such service, he may, on its termination, be given a free issue of one pair of pantaloons and two pairs of drawers, if those then in his possession are worn out.

Silladar Cavalry.

175. While employed on field service all clothing required by silladar cavalry units and details, in renewal of that taken into the field will also be provided by the State, a deduction being made from the silladar rate of pay as laid down in A. R. I., Vol. I, which will commence from the date the unit leaves its station in India. On return to cantonments the clothing of units will be surveyed by a committee composed of a Bde. Comdr. or an A. A. G., an officer of the units, and an officer of the Ordnance Dept., and all articles found to be unserviceable will be condemned and replaced by the State.

st. Appx.—102 *Para 173.—In the first line after "troops" insert a comma, delete*
A.O.—1914. "and" and at the end *add* "and sirdars, tindals and lascars of the
Ordnance Department."



Miscellaneous.

176. In the case of classes not specifically referred to in these regulations, issues of clothing will be governed by the regulations hitherto in force (*vide* para. 151). Classes governed by old regulations.

177. Combatants and followers belonging to corps maintained as a civil charge, will be supplied with clothing on payment on such scale as the civil authority concerned may approve. Local corps, etc.

178. Combatants seconded in their units for service with the A. B. Corps will wear their regimental uniform. Their clothing allowances will be drawn by their regiments. Men with A. B. Corps.

- (b) About half a pound of flour of sulphur will then be put into an earthenware saucer and ignited.
- (c) All doors, windows and other openings in the room will be closed before commencing the fumigation of the garments.
- (d) After from three to four hours the doors and windows will be opened and free ventilation established.
- (e) The clothing will subsequently be well aired and shaken.

Washing Flannel Shirts, Worsted Socks and Woollen Goods.

19. The water in which the articles are washed should be lukewarm only; they should on no account be put into boiling or even very hot water, as it tends to shrink the material. The articles must be well rinsed in clean tepid water before drying. Yellow soap only should be used, and the use of washing powder is prohibited. A little ammonia (one tablespoonful to two gallons of water) may be added to remove grease and perspiration.

After the water has been completely wrung out of them, the articles will be well pulled out by hand before drying.

Appendix II.

Instructions for the care and preservation of boots.

Care in store—

- (a) On receipt of a consignment from the factory, all the boots should be immediately dubbed, packed in cases and stored in as cool a place as possible. In a damp climate they may be kept suspended where space permits.
- (b) All boots in store should be dubbed every six months. A mixture of cod-liver oil and tallow is the best preparation; but neat's foot oil, castor oil or mutton fat may be used if dubbing is not available. For brown boots and gaiters mutton fat is the best; it does not colour the leather as much as the other preservatives.
- (c) The store-room should be kept well ventilated but in the hot weather windows should be kept closed during the day.

After issue to the soldier—

- (a) Boots should be taken into wear as soon as issued.
- (b) All boots should be kept in wear and not allowed to lie idle, as they deteriorate through disuse.
- (c) All boots should have a light dressing of dubbing rubbed well into them once a week.
- (d) After getting wet, boots should be cleaned thoroughly, and when half dry, well dubbed.
- (e) Boots should never be dried in the sun or before a fire.
- (f) When any repair becomes necessary it should be done at once. A stitch in time saves nine and will save the soldier's money.

Instructions for the care and preservation of articles made of patent leather—

1. Articles made of patent leather should be stored in tin lined cases. In hot weather they should be kept clear from any paper or other wrapping which make an impression on the patent surface should it become soft. They should be stored in the coolest place possible.

2. Both surfaces of the leather should, after being carefully cleaned, be rubbed with milk applied with a sponge or soft cloth. This should be done every six months whilst the articles are in store, but if the surface is found to be cracked during the hot weather, it should not be touched. The oil will not restore it to its normal condition.

Appendix III.

Instructions for measuring and fitting.

(Referred to in the text.)

Garments, with a few exceptions, are made to the measurements of each being in accordance with the specifications issued to O. C. F. to as closely as possible when required for men of abnormal size.

2. The specifications being issued to O. C. F. Should a C. O. have any alterations recommended, such should be referred to A. H. Q., forwarding a pattern; such should be referred to A. H. Q., forwarding a pattern; such should be referred to A. H. Q., forwarding a pattern.

3. In fitting such a soldier has now to perform the measurements of his own body.

4. In a system of measurement of the body, the measurements should be taken in the following manner:

performance depends the correctness of the size-rolls submitted by units with their indents and consequently on the correctness of the size of garments issued to the men. Complete instructions for taking measurements and allotting sizes are contained in the clothing measurement roll (I. A. F. C.-821), and O. C. are responsible that they are strictly carried out. Instructions for taking measurements are also given below.

5. Having ascertained the correct size number of each man, particular care should be taken that men receive garments of the size allotted to them. Many of the complaints made in the past in regard to fit have been found to be due to the issue of garments of wrong size.

6. Each man requiring clothing will be paraded at the Quartermaster's store, and in the presence of the O. C. the company, the serjeant tailor will select the garments of sizes to correspond with the man's measurement, and fit them on the soldier.

7. The O. C. the company will then parade the men for the inspection of the C. O., who will see that the boots and clothing have been properly fitted; if any garments require altering he will cause such alterations as he may deem advisable to be recorded on an alteration sheet, which will be carefully preserved.

8. The Captain will ascertain that the alterations noted in the "alteration sheet" have been completed, and will afterwards parade his men for the final approval of the Commanding Officer.

9. In the R. A. the O. C. a battery or company will not, unless required to do so, parade the men for the inspection of the O. C. the R. A. district or command until the alterations have been completed.

10. If it be reported to the O. C. that the clothing made in the factory does not and cannot be made to fit, he will see the men, or a proportion of the men concerned measured, and compare the size of garments so found to be required with those issued and with the company measurement roll. If the matter is reported to the Supdt., A. C. F., samples of the garments complained of should also be sent. When defects are such that they cannot be remedied regimentally no alteration whatever should be made in the garments pending the receipt of instructions.

The A. C. Dept. will be responsible if garments are not in accord with specifications, and O. C. units will be responsible for misfits due to inaccuracies in recording measurements, the inclusion of wrong sizes in size rolls, or the issue of wrong sizes to men.

Instructions.

1. *Tunics, frocks, jackets and blouses.*—When the height of the men is being taken, they will not wear boots. The breast and waist measurements will be taken under the tunic, frock or jacket, and over the regulation shirt, and no addition should be made when measuring, as the proper allowance will be made by the A. C. Dept.; if there are any men who, from peculiarities of figure or other reasons, cannot be included in the sizes given in the size-roll, they will be included in I. A. F. C.-837 unless they can be arranged for from the proportion to be made regimentally and from the normal scale of materials. A size larger should be obtained for growing boys than their actual measurements indicate. The length of sleeve required will be taken from the centre of the back to the wrist, with the arm bent and the elbow level with the shoulder. The blouse when worn without the kummerband should reach to within 4 inches from the point of the knee.

2. *Trousers.* The measurement of the side seams will be taken from three inches above the hipbone down to one inch from the ground, and that of the leg seam from the fork to one inch from the ground. The waist measurement will be taken rather tightly over the trousers and should be one inch less than the waist measurement of the tunic, frock or jacket.

3. *Knickerbockers and pyjamas.*—The height of the man and waist measurement over the trousers should be taken.

4. *Pantaloon.*—The side seam measurement will be taken from three inches above the hipbone down to the knee, and to the measurement thus obtained one inch and a half will be added. The tape will then be taken on to the small, the calf and to the full length. The full length will be about five inches from the ground. The leg seam will be taken from the fork to the knee, and to the measurement thus obtained one inch and a half will be added. The tape will then be taken on to the small, the calf to the full length. The waist measurement will be taken rather tightly over the trousers or pantaloons, and will be one inch less than the waist measurement of the tunic, frock or jacket. The dimensions of knee, calf, small and bottom should be taken over the drawers.

5. *Great-coats.*—The measurements will be taken over the tunic or serge frock. They should, when measured behind, reach to within 15 inches of the ground.

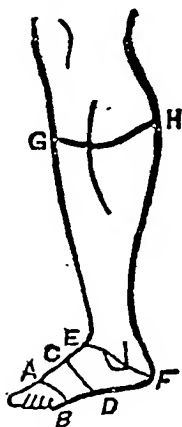
6. *Head-dresses.*—A head-dress which fits the soldier will be measured, and not the man's head, and the size number of the head-dress thus ascertained will be recorded instead of the circumference of the head.

7. *Boots and shoes.*—The proper fitting of boots, on which the marching of an army depends, is a matter of the first importance. Company officers who superintend the fitting of boots will see that they are fully long enough, special care being taken that boys and growing lads are not allowed to wear boots too small a size. As there is often a slight difference in boots of the same size number, great care is required in the fittings.

8. Knee-boots must be sufficiently large in the heel and instep measurements to admit of their being easily drawn on and off when wet. To ensure this, every man will be measured from heel to instep and the boots issued to him will be one inch larger in the heel and instep than such measurement; for instance, a boot measuring $14\frac{1}{2}$ inches inside round the heel and instep will be given to a man whose foot measures but $13\frac{1}{2}$ inches. When the knee-boot is on, the upper edge will be one inch below the knee cap.

9. After a man is fitted, the toes of his boots should be raised by means of a last or piece of wood, and the whole of the upper well oiled with animal oil in order to make more room at this part.

10. The foot of every man will be measured on enlistment, by an N. C. O., in the following manner:—



(a) Take the length (when the man is sitting) with a size stick and with a measuring tape the circumference of joints of toes (A-B), the instep (C-D), the heel and ankle (E-F), and for knee boots the calf (G-H) as shown in diagram.

(b) The measurements and the size of the boot required will be passed with the recruit's documents to the service unit, where they will be recorded in the company measurement roll, and checked half-yearly before indents are submitted.

(c) Where any difficulty is experienced in fitting from the ordinary stock sizes, a pencil outline of the foot taken whilst standing on a piece of paper together with the above measurements, will accompany the indent for the boots.

(d) A man will invariably be re-measured before passing to the reserve.

11. The following is the scale of sizes, lengths and magnitudes of fitting for boots and Highland shoes. This scale should be carefully scrutinised when checking the measurements of men recorded in the company measurement roll, as it will greatly assist company commanders and others in ascertaining the correct size of boot for each man.

Standard sizes with their measurements.

Size.	Length.	Calf.	Ankle.
1	18	15	19½
2	18	15½	19½
3	18	16	19
4	18½	16½	19
5	18½	16	19½
6	18½	16½	19½
7	19	16	19½
8	19	16½	19½
9	19	16	19½
10	19½	16½	19½
11	19½	17	19½
12	19½	17½	19½

GAITERS MOUNTED.

(b) Gaiters are made to standard sizes as shown below. Those required for men of unusual dimensions only should be ordered by giving the actual measurements—A to B, C to D and E to F.

Measurements are required to be taken in inches and half inches; no smaller fractions of an inch will be attended to.

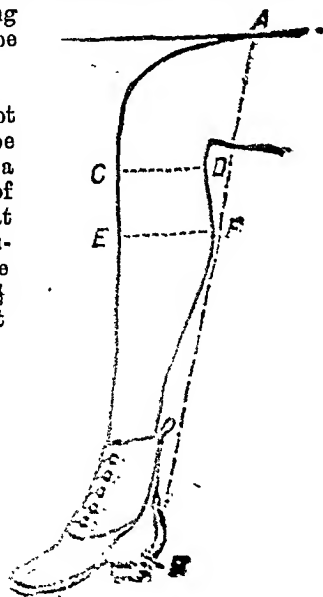
INSTRUCTIONS FOR TAKING MEASUREMENTS.

The measurement A to B (*i.e.*, along the back seam of the gaiter) should be taken in the following manner:—

Sit in such a position that with the foot resting flat on the ground, the leg will be at right angles with the thigh. Place a straight edge horizontally along top of thigh. From the point B (edge of seat and heel at back) draw a tape perpendicular to the ground, to the point A on the under surface of the straight edge; 7½ inches less measurement will give correct length of gaiters.

C to D round top of gaiters.

E to F round calf.



Standard sizes with their measurements.

Size.	Length, inches.	Top, inches.	Calf, inches.	Size.	Length, inches.	Top, inches.	Calf, inches.	Size.	Length, inches.	Top, inches.	Calf, inches.
1	12	12	13	16	13	14½	15½	31	14½	13	14
2	12	12½	13½	17	13	15	16	32	14½	13½	14½
3	12	13	14	18	13½	12	13	33	14½	14	15
4	12	13½	14½	19	13½	12½	13½	34	14½	14½	15½
5	12	14	15	20	13½	13	14	35	14½	15	16½
6	12½	12	13	21	13½	13½	14½	36	15	13	14
7	12½	12½	13½	22	13½	14	15	37	15	13½	14½
8	12½	13	14	23	13½	14½	15½	38	15	14	15
9	12½	13½	14½	24	13½	15	16	39	15	14½	15½
10	12½	14	15	25	14	13½	13½	40	15	15	16
11	13	12	13	26	14	13	14	41	15½	13	14
12	13	12½	13½	27	14	13½	14½	42	15½	13½	14½
13	13	13	14	28	14	14	15	43	15½	14	15
14	13	13½	14½	29	14	14½	15½	44	15½	14½	15½
15	13	14	15	30	14	15	16	45	15½	15	16

Appendix IV.

Scale of badges allowed to British and Indian troops for skill-at-arms, etc.

Description of badges.	Proportion allowed.	REMARKS.
Rifles crossed, and crown, gold.	4 per unit in which all the companies, etc., have executed the annual course.	Cavalry, sappers and miners and infantry.
Rifles, crossed, and star, gold.	1 per squadron or company (and band if exercised separately) in which at least 30 men have executed the annual course.	British cavalry and infantry.
	Ditto ditto	Sappers and miners and Indian infantry.
	1 per half squadron in which at least 30 men have executed the annual course.	Indian cavalry.
Rifles, crossed, gold	1 per every other marksman	British cavalry and infantry.
	1 per marksman	Royal engineers.
		Royal artillery.
Rifles, crossed, with crown and bay leaf scroll, gold.	1 per regiment	British Cavalry and Infantry.
Rifles, crossed, with star and bay leaf scroll, gold.	1 per regiment	Indian cavalry excluding Aden (troop.) Indian infantry (excluding Nepal escort.) Sappers and Miners (excluding signal companies.)
Rifles, crossed, worsted	1 per every other marksman	Indian cavalry, sappers and miners and Indian infantry.
	1 per combatant serving with the unit at the date of practice of a battery or company winning a 1st prize.	British and Indian troops.
Guns, crossed, and crown, gold.	1 per N. C. O. and man of each of the detachments of the frontier garrison artillery at Kohat, Lockhart, Malakand and Chakdara attaining the 1st class standard of efficiency.	Indian artillery.
"G" with laurel wreath and crown, gold.	1 per battery company, R. A.	Also two badges (1st and 2nd class) are allowed for each coast, inland and siege company for competition among sergeants.
"G" with laurel wreath and star, gold.		
"G" with laurel wreath, gold.	1 per battery or company R. A. 2 per Indian battery.	
"G" with laurel wreath, worsted.	1 per Indian battery.	R. H. A.
	18 per battery	R. F. A.
		Mountain.
		British and Indian.
"L" within laurel wreath, gold.	12 per battery	Heavy
		and
		Light.
Whips and spurs, crossed, and crown, gold.	1 per horse or field battery	For British troops
Whips and spurs, crossed, gold.	1 per battery (except heavy)	Not for Indian troops

Description of badges.	Proportion allowed.	REMARKS.
Whips and spurs, crossed, worsted.	3 per mountain battery. 2 per horse or field battery for British drivers. 1 per horse or field battery for Indian drivers. 2 per royal horse artillery ammunition column. 4 per field artillery and howitzer ammunition column. 3 per each partly horsed heavy battery. 1 per Sapper company having attested drivers.	
Star, gold (for judging distance).	32 per British cavalry regiment. 48 " " infantry battalion. 8 per squadron of Indian cavalry regiment. 6 per company of Indian infantry and sappers and miners. 1 per assistant instructor.	

	BRITISH REGIMENTS.			INDIAN REGIMENTS ARMED WITH		
	Lancers.	Dragoon Guards and Dragoons.	Hussars.	Lance.	Front rank lance.	Sword.
Lances, crossed and crown, gold.	1	1	...	1	1	...
Lances, crossed and star, gold.	3	3	...	...	...	...
Lances, crossed, gold.	24	16	...	3	3	...
Lances, crossed, worsted.	...	...	...	8	...	...
Swords, crossed and crown, gold.	1	1	1	1	1	1
Swords, crossed and star, gold.	3	3	3	...	...	...
Swords, crossed, gold.	16	24	32	3	3	3
Swords, crossed, worsted.	...	...	...	...	8	8

2. A second similar badge is allowed to each British and Indian soldier awarded the above in cavalry and R. H. A. One set of badges (drab and white worsted mixture) is allowed in addition to each British and Indian soldier awarded the above for wear with khaki.

3. The above badges will be worn from the date of receipt until that of the issue of the supply for the succeeding year.

Appendix V.

(22) Order of 12 September 1914.

Stations at which waterproof clothing is authorised for Belted and button type.

Bhamo.	Dejeshing.	Kohima.	Wahingmang.
Bombay.	Pohor Dun.	Ladakh.	Wahingmang.
Buxa.	Pharmasala.	Ladakh.	Wahingmang.
Calicut.	Mibungarh.	Ladakh.	Wahingmang.
Cannanore.	Guntak.	Malapuzam.	Wahingmang.
Chakrata.	Katapohar.	Moratu.	Wahingmang.
Dalhousie.	Koundalla.	Naini Tal.	Wahingmang.

Appendix

[illegible]

VI.

periods of wear and scales of free issues referred to in para. 44.

ROYAL ENGINEER.				INFANTRY.								ARMY SCHOOL MASTERS.				BANDS.				MILITARY MEDICAL PUPILS.				Serial number.	REMARKS.
				KILTED HIGHLANDERS.				OTHER INFANTRY AND ARMY ORDNANCE CORPS.								VICE-ROY'S.		GOVERNOR OF BOMBAY.								GOVERNOR OF BENGAL.
Period of wear.		To be kept up.		Free issues.		Period of wear.		To be kept up.		Free issues.		Period of wear.		To be kept up.		Period of wear.		To be kept up.		Period of wear.		To be kept up.		Serial number.	REMARKS.
Yr.		Home.	Colonies.	Yr.		Home.	Colonies.	Yr.		Home.	Colonies.	Yr.		Home.	Colonies.	Yr.		Home.	Colonies.	Yr.		Home.	Colonies.		
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	
...	2	...	...	...	...	...	...	...	2	...	...	...	2	...	...	...	2	...	...	...	2	1	1	2	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	
...	...	...	...	...	2(f)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6	
...	2	2	1	...	2	2	1	...	2	2	1	...	2	2	1	...	2	...	2	...	2	...	2	7	
2	1	...	...	2	1	...	...	2	1	...	...	2	1	...	...	2	1	2	1	2	1	2	1	8	
...	...	...	...	1	2(g)	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10	
1½	1	...	...	1½	1	...	...	1½	1(h)	...	...	1½	1	...	...	1½	1	1½	1	1½	1	1½	1	11	
...	...	...	...	...	...	...	...	1½	1(i)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12	
2	3	2	2	2	3	2	2	2	3	2	2	2	3	2	2	2	3	2	3	2	3	½	4	14	
1	3	2	...	1	3	2	...	1	3	2	...	1	3	2	...	...	...	...	...	...	...	...	...	15	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	16	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	16	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	17	
(s)	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	(s)	1	18	
4	1	...	...	4	1	...	...	4	1	...	...	4	1	...	...	4	1	4	1	4	1	4	1	19	
2	1	...	...	2	1	...	...	2	1	...	...	2	1	...	...	2	1	2	1	2	1	2	1	20	
...	2	2	1	...	2	2	1	...	2	2	1	...	...	...	...	...	...	...	...	...	...	...	...	21	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	22	
...	...	...	...	5	1(k)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	23	
...	...	...	...	2½	1(l)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24	
...	...	...	...	2	1(f)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	25	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	26	
...	...	...	...	2	1	...	...	2	1(w)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	27	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	28	
2½	1(m)	...	...	...	...	...	...	1½	1(l)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	29	
5	1(m)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	30	
...	...	...	...	4	1	...	...	4	1(p)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	31	
1½	1	...	...	...	...	...	...	1½	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	32	
...	...	...	...	2(z)	1	...	...	2	1(w)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	33	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	34	
...	...	...	...	4	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	35	
...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	36	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	37	
...	...	...	...	(s)	1	1	1	...	1½	1(q)	...	...	...	...	...	...	...	...	...	...	...	...	...	38	
1	3	2	...	1	3	2	...	1	3	2	...	1	3	2	...	...	...	...	...	...	...	...	...	39	
1½	1	...	...	...	...	...	...	1½	1(r)	...	...	1½	1	...	...	1½	1	1	1	1½	1	1½	1	40	
...	...	...	...	...	...	...	...	1½	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	41	
2	3	2	2	2	3	2	2	2	3	2	2	2	3	2	2	2	3	2	3	2	3	2	4	42	
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	(t)1	...	...	...	...	...	...	43	

* White for Viceroy's Band.

† For drill clothing only.

(n) Also 9 men (including 6 mounted signallers) of each Divisional Signal Coy. undergoing training in mounted duties and for non-commissioned officers and men of No. 41 Wireless Signal Company after completion of their period of probation.

(o) Dismounted men only.

(p) Highland Light Infantry only. The scarf is worn by ranks entitled to 1st quality and the band. No plaids.

(q) Scottish Regiments including Scottish Rifles, except pipers, Highland Light Infantry.

(r) Except Rifles, Scottish Rifles and Army Ordnance Corps.

(s) No periodical issues.

(t) And badges of rank and chevrons for ranks of Sergeants and upwards.

(u) Except at Quetta.

(v) And chevrons for ranks of Sergeants and upwards.

(w) Except Army Ordnance Corps.

(x) Ranks armed with rifle.

(y) Dismounted men of heavy artillery and mounted men of Mountain Artillery will purchase the second pair six months after arrival in India. Recruits, etc., receive 2 pairs.

(z) Three years for ranks

* White for Viceroy's Band.

φ = (n) (y).

† For drill clothing only.

Appendix VII.
Public Clothing to which British troops are entitled.

Number.	ARTICLES.	Period of wear, years.	Cavalry.	ROYAL ARTILLERY.								Royal Engineer.	INFANTRY.				Army Schoolmasters.	Military Medical pupils.	Viceroy's Band.	Band Governor of Bengal.	Band Governor of Bombay.	A. O. Corps.		REMARKS.
				FIELD AND HEAVY.		Garrison.	MOUNTAIN.		Line and Rifles.	Scottish Regiments.	Kilted Highlanders.		H. L. I., except Pipers.	Armourer section.	Others.									
				Mounted.	Dismounted.		Horse.	Mounted.								Dismounted.								
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	(a) As a first and final supply. (b) To such extent as not received prior to landing in India. (c) Also authorised for each of the 13 men (9 British ranks and 4 Indian linenmen) in each Divisional signal company and for non-commissioned officers and men of No. 41 Wireless signal company after completion of their period of probation. (d) One waterproof coat, with hood, per man is authorised in lieu of a great coat and cape. When authorised for the units.	
1	<i>Renewable under para. 75.</i>	12	1	1	1	1	1	1	1	1	1	1	1	1	1	1(a)	1	1	1	1	1	1		
2	Badges, arm (see Appx. VIII)	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
3	Boots, knee	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
4	Canvas clothing, see para. 89	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
5	Cap lines, Lancers only	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
6	Covers, greatcoat, per two men	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
7	"	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
8	Girdles (Lancers only)	6	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
9	Greatcoat { Mounted	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
10	" { Dismounted.	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
11	" capes for	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
12	" straps for	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
13	Gymnasium, shoes, see para. 84.	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
14	Haversack	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
15	Helmet fittings	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
16	Magazine, see para. 85	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
17	Spurs, jack (c)	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
18	" straps with steel studs for (c)	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
19	Spurs, jack, extra upper straps for	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
20	Waders, see para 88	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
21	Waterproof, see para. 86	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
22	Necessaries (arrival issues).	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
23	Badges, cap	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
24	" collar (b)	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
25	" kit, mounted services (b).	...	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		

NOTE 1.—Guns of R. F. A. and all dismounted men of partly horsed heavy batteries are clothed as mounted men.

RANKS, ETC.	WORN ON TUNICS, FROCKS AND JACKETS, EXCEPT KHAKI DRILL.				WORN ON CLOAKS AND GREATCOATS.	
	Chevrons, bars.		Distinguishing badges.		Chevrons, worsted, bars.	Distinguishing badges, metal.
	Gold. (g)	Worsted.	Gold.	Worsted.		
Serjeant trumpeter	4	...	Gun and crossed trumpets.	...	4	
Shoeing smith . . . . .	...	...	Horse-shoe . . . . .	...	...
Trumpeter . . . . .	...	...	...	Crossed trumpets.	...	
Wheeler . . . . .	...	...	Wheel . . . . .	...	...
Royal Engineers.						
Company serjeant major or mechanist staff serjeant.	3	...	Crown and grenade.	...	3	Crown and grenade.
Corporal	2	...	...	...	2	
2nd Corporal	1	...	...	...	1	
Quarter-master serjeant . .	4	...	Star and gren- ade.	...	4	Star and grenade.
Quarter-master serjeant mechanist.	4	...	Grenade . . . . .	...	4	Grenade.
Quarter-master serjeants instructor.	4	...	Grenade . . . . .	...	4	Grenade.
Serjeant	3	...	Grenade . . . . .	...	3	Grenade.
Warrant officer . . . . .	...	...	Crown . . . . .	...	...	Crown.
Lance corporal	1	...	Good conduct to which en- titled.	...	1	
Infantry.						
Bandmaster . . . . .	...	...	Lyre and crown. (a)	...	...
Band serjeant	3	...	Gilding metal lyre and crown. (a)	...	3	
Bugler . . . . .	...	...	...	Bugle. (d)	...	
Colour serjeant	3	...	Crossed flags and crown. (b)	...	3	Crown.
Colour serjeant (orderly room serjeant).	3	...	Crown . . . . .	...	3	Crown.
Corporal . . . . .	...	2	...	...	2	
Drummer . . . . .	...	...	...	Drum	...	
Instructors and assistant instructors of physical training.	...	...	Crossed swords.	...	...
Lance corporal (paid) . . .	...	1	...	...	1	
Lance serjeant (paid) . . .	...	3	...	...	3	
Pioneer, Fusiliers . . . . .	...	...	...	Grenade and crossed hatchets. (c)	...	
„ Rifles and Light Infantry.	...	...	...	Bugle and crossed hatchets. (c)	...	
„ other regiments . . . . .	...	...	...	Crossed hat- chets. (c)	...	
Quarter-master serjeant . .	4	...	Star . . . . .	...	4	Star.
Quarter-master serjeant (orderly room serjeant) or serjeant piper.	4	...	...	...	4	
Band and file of band establishment.	...	...	Gilding metal lyre and crown. (a)	...	...
Ranks below that of cor- poral.	...	...	...	Good conduct to which entitled.	...	
Serjeant	3	...	...	...	3	
Serjeant bugler	4	...	Bugle . . . . .	...	4	Bugle.
Serjeant drummer	4	...	Drum . . . . .	...	4	Drum.
Serjeant major . . . . .	...	...	Crown . . . . .	...	...	Crown.
Schools of Musketry.						
Serjeant major . . . . .	...	...	Crown and cross- ed rifles.	...	...	Crown.
Gymnastic Staff.						
Quarter-master serjeant . .	4	...	Crossed swords	...	4	
Serjeant major . . . . .	...	...	Crown and cross- ed swords.	...	...	Crown.



RANKS, ETC.	WORN ON TUNICS, FROCKS AND JACKETS, EXCEPT KHAKI DRILL.			WORN ON GREATCOATS.	
	Chevrons, bars.	Distinguishing badges.		Chevrons, worsted, bars.	Distinguishing badges, metal.
		Gold. (g).	Gold. Worsted.		
Others on the U. L. (non-departmental).					
Garrison and hill-depot quarter-master serjeant.	4	Star	...	4	Star.
Others holding the rank of	4	...	...	4	...
Quarter-master serjeant	3	Crown	...	3	Crown.
Colour serjeant	3	...	...	3	...
Serjeant-major	...	Crown	...	...	Crown.
Serjeant-major	...	Lyre and crown, large.	...	...	Crown.
Viceroy's, Bengal and Bombay Governor's Band.	4	Lyre, small	...	4	...
Quarter-master serjeant.	3	Lyre and crown, small.	...	3	Crown.
Colour serjeant	3	Lyre, small	...	3	...
Serjeant	...	Lyre, small	...	...	...
Probationer	...	...	...	...	...
U. L. (departmental).					
Staff Serjeant	3	Crown	...	3	Crown.
Serjeant	3	...	...	3	...
A. O. Corps.					
Serjeant-major	...	Crown, crossed hammer and pincers.	...	...	Crown.
Quarter-master serjeant.	4	Crossed hammer and pincers.	...	4	...
Staff serjeant	3	Crown, crossed hammer and pincers.	...	3	Crown.
Private	...	Hammer and pincers.	Good conduct to which entitled.	...	...

(a) Except rifle regiments and undress jackets of Highlanders on gilding metal badge issued free on appointment only.

(b) Special badge in Rifles.

(c) Gold for serjeants.

(d) Not worn in Rifles.

(f) Gold for N. C. Os.

(g) In Rifles these are of worsted lace and silk embroidery. In the Rifle Brigade 4 bars and serjeants' chevrons are edged with gold.

(h) "All ranks wear drab worsted chevrons and good conduct badges, as above, on khaki drill frocks and gold and worsted chevrons and good conduct badges, on white drill frocks. Badges for wear with khaki and white drill frocks are in metal, except those for instructors and assistant instructors of physical training or fencing, which are of worsted.

NOTE.—Officer and rough rider N. C. Os. will wear the badges indicating their duties in addition, to, and in the same material as, the chevrons, etc., authorized for their rank, but such badges are not worn on the greatcoat.

Appendix IX.

Arm Badges.

The following special arm badges are worn by certain N. C. Os. of the regiment stated:—

1st Dragoon Guards	Austrian Eagle
2nd Dragoon Guards	"Bays" within a laurel wreath surmounted by a crown.
3rd Dragoon Guards	Prince of Wales' plume
10th Hussars	Star of the Order of St. Patrick
12th Lancers	Ligonier crest
4th Dragoon Guards	Royal Crest
7th Dragoon Guards	Eagle
1st Dragoons	Castle of Inniskilling
15th Hussars	White horse
2nd Dragoons	Harp and Crown
6th Dragoons	Cypher A. R. and Crown
3rd Hussars	Crest and motto of late Prince Albert.
5th Lancers	Prussian Eagle
8th Hussars	Death's head
9th Lancers	Elephant
11th Hussars	Imperial Cypher and Crown
14th Hussars	
17th Lancers	
19th Hussars	
21st Lancers	

The badges will be worn by corporals, lance-serjeants and sergeants of all grades in the 2nd Dragoon Guards and 14th Hussars, and by serjeants of all grades above the rank of lance-serjeant in other regiments. They will be made of sterling silver (oxidized for 14th Hussars), except those for the 2nd Dragoon Guards, which will be made of white metal, those for the 7th Dragoon Guards will be made of gilding metal and those for lance-serjeants and corporals of 14th Hussars will be made of oxidized German silver.

Appendix X.

List of regimental necessities to be kept up by British troops.

ARTICLES.	Cavalry.	ARTILLERY.		Royal Engin- eers.	INFANTRY.		Army School- masters.
		Mounted, including mounted men of mountain and heavy batteries. (c)	Dis- mounted and artificers of the A. O. C.		Highland regi- ments, but only pipers of Highland L. I.	Others and Armorer Section of A. O. C.	
Badge, cap (a)	1	1	1	1	1	1	1
Badges, collar (a) . . . pairs	2	2	2	...	2	2(d)	...
Bag, stable	1	1	...	...	...	...	...
" universal	1	1	1	1	1	1	...
Belts for purses . . . . .	...	...	...	...	1	1	...
Blacking, tin (b) (g)	1	1	1	1	1	1	1
Braces pair	1	1	1	1	1	1(f)	...
Brass button	1	1	1	1	1	1	1
Brush, blacking (b)	1	1	1	1	1	1(f)	...
" brass	1	1	1	1	1	1	1
" clothes	1	1	1	1	1	1	1
" hair	1	1	1	1	1	1	1
" hard . . . . .	...	1	1	1	...	...	...
" lace	1	...	...	...	...	...	...
" polishing (b)	1	1	1	1	1	1	1
" shaving	1	1	1	1	1	1	1
" tooth	1	1	1	1	1	1	1
Comb, hair	1	1	1	1	1	1	2
Drawers, cotton . . . . .	...	...	...	...	...	...	...
Fork	1	1	1	1	1	1	...
Garters and rosettes . . . pair	...	...	...	...	1	1	...
Holdall	1	1	1	1	2	...	1
Hose tops pairs	...	...	...	...	1	1	...
Housewives	1	1	1	1	1	1	...
Identity discs	1	1	1	1	1	1	...
" cord for (42 inches in length)	1	1	1	1	1	1	...
Badges or initials and numerals, metal, for shoulder straps (a) (sets, pairs)	8	8	8	8	8	8	...
Jersey	1	1	1	1	1	1	...
Knife, clasp, with lanyard . . .	1	1	1	1	...	1	...
" table	1	1	1	1	1	1	...
Laces, boot pair	1	1	1	1	1	1	...
Dubbing (g) tin	1	1	1	1	1	1	1
Mitts, worsted pair	...	...	...	...	1	1	...
Purse . . . . .	...	...	...	...	1	1	1
Razor and case	1	1	...	...	...	...	...
Rubber, horse	8	8	8	8	8	8	8
Shirts, flannel, silver grey . . .	1	1	1	1	1	1	...
Soap, piece (e)	3	3	3	3	3	3	3
Socks, worsted pairs	1	1	1	1	1	1	...
Spoon	1	1	1	1	1	1	...
Sponge, pipeclay	1	1	1	1	1	1	...
Spurs, swan-neck, with screws .	1	(b) 1	...	...	...	...	...
. pairs	2	2	2	2	2	2	4
Towels	2	2	2	2	2	2	4

(a) As approved for the unit.

(b) Except mountain artillery.

(c) "Gunners of R. F. A. and all dismounted men of partly horsed heavy batteries receive the same scale of necessities as mounted men of artillery."

(d) Except Rifles and Oxfordshire and Buckinghamshire L. I.

(e) Not a free issue and not supplied by the A. C. Dept.

(f) Except Rifle regiments.

(g) Blacking and dubbing will be arranged for regimentally. An allowance of one anna for a tin of blacking and four annas for dubbing will be drawn by each recruit enlisted in India in lieu of a first free issue in kind.

Appendix XI.

Position of chevrons and badges worn by British troops.

Garments on which worn.	Arm on which worn.	Badges.	How worn.
Tunic, frock, jacket	Right	Crown and laurel wreath. Crown and crossed rifles or swords, crown,* crown and lyre, gun and crown.	With pointed or braided cuffs half an inch above the cuff or braiding. With plain cuffs or in Scottish regiments lower edge or points of the badges will be $6\frac{1}{2}$ inches from the bottom of sleeve. Crown above crossed rifles, etc., when worn.
Do.	Do.	Gun, 3rd class master gunners.	
Do.	Do.	4-bar chevrons	
Do.	Do.	9, 2 and 1 bar chevrons	Points upwards. With pointed or braided cuffs the centre of the chevrons will be about half an inch above the point of cuffs or braiding, or in Scottish regiments the highest point of cuff or braiding. With plain cuffs the point of the chevron will be 9 inches from bottom of sleeve.
Do.	Do.	Crown and xd. swords Crossed guns, crown and grenade.	Above the elbow, points downwards as follows :— 3 bars $10\frac{1}{2}$ inches. 2 " $9\frac{1}{2}$ " " 1 bar 9 " respectively from top of sleeve to point of chevron.
Do.	Do.	Gun of grenade	On the chevrons.
Do.	Do.	Star, crown, N. C. O.s	
Do.	Do.	Hammer and pincers	Immediately above the chevrons. Above chevrons, and in R. A. and R. E., the gun and grenade respectively.
Tunic	Do.	Silver or German metal arm badges.	Immediately above the chevrons and gun.
Tunic, frock, jackets, except scouts badge which is not worn with white frock.	Do.	Other badges of rank and appointment, i.e., xd. swords, shoe, spur, wheel, bit, crossed trumpets, drums, bugles lyre, metal lyre and crown, crossed flags (colour serjts.) and scouts badges.	As above.
Tunic, frock, jacket	Left	Good conduct	Immediately above the chevrons gun, grenade, spur, shoe hammer and pincers as worn, except that serjts. will wear crossed trumpets on the chevrons. By ranks not wearing chevrons the lower edge of points of badge will be 9 inches from top of sleeve.
Do.	Right	Star, gold (judging distance).	Points upwards. With pointed or braided cuffs centre of badge is to be half an inch above the point of cuff or braiding. In Scottish regts. the bottom points of the badge will be half an inch higher than the highest point of cuff or braiding. With plain cuffs point of 1 bar 8 inches, 3 bar $8\frac{1}{2}$ inches and the 4, 5 and 6 bar 9 inches from bottom of sleeve.
Do.	Do.	Shooting-cavalry and infantry.	Below the elbow above all others.
			Below the elbow by commanders of best shooting sections.

*Not worn on Highland regiments, white jacket,

Appendix XI—concl'd.

Position of chevrons and badges worn by British troops.

Garments on which worn.	Arm on which worn.	Badges.	How worn.
Tunic, frock, jacket	Left	Shooting-cavalry and all arms.	Badges other than section commanders. Below elbow, the highest distinction nearest the bottom of sleeve. The marksman's badge will not be worn with that for the company shot.
Do.	Do.	Skill-at-arms with lance and sword and those special to R. A. Also gun layer's badges.	Below elbow. Battery badges are worn above all others. The crown and crossed swords for the best swordsmen in a Cavalry regt. is worn on the right arm below elbow.
Tunic, frock and jacket except white.	Right	Signalling	Above chevrons by N. C. O.s who have obtained an assistant instructor's certificate whether employed in that capacity or not.
Do.	Left	Do.	Above the elbow, by colour serjts. of infantry who have obtained an assistant instructor's certificate.
Do.	Right	Do.	Above the elbow, by men who have obtained an assistant instructor's certificate whether employed as signaller or not.
Do.	Left	Do.	Below the elbow and above all other badges except battery badges by N. C. O.s and men employed as signallers but not in possession of an assistant instructor's certificate.
Tunic, frock and jacket (except khaki frock).	...	Metal collar badges	Midway between top and bottom of collar and two inches from centre of badge to end of collar.
Greatcoat	Both	Crown and wreath. Crown or gun and crown.	Warrant officers. Lower edge or points of badge 6½ inches from the bottom of sleeve. Point upwards and eleven inches from the bottom of sleeve. As on tunics. } N. C. O.s. only above chevrons.
Do.	Do.	4 bar chevrons	
Do.	Do.	3, 2 and 1 bar chevrons	
Do.	Do.	Crown, star	
Do.	Right	Bugle and drum	

N.B.—Skill-at-arms badges (except when worn with a badge of rank or good conduct badge which they will surmount) are to be worn with the lower edge or point of the lowest badge about half an inch above the point of the cuff or braiding. In Scottish regiments and with plain cuffs the bottom edge or points of the lowest badge will be 6 inches from the bottom of the sleeve.

Note.—Chevrons and badges of rank will be worn on both arms on khaki drill clothing; badges of appointment, good conduct and skill-at-arms badges and gun layer's badges on one arm only.

Appendix XV.

(Referred to in para. 65.)

stations, etc., where " hobnailed " and " toeplated " boots should be worn.)

Attock.
Baragally.
Chakrata.
Cherat.
Choubattin.
Dagshai.
Dalhousie.
Darjeeling.
Gharial.
Ghoom.
Jalapahar.
Jutogh.
Kasauli.
Katapahar.

Khyragally.
Kuldana.
Landour.
Lebong.
Murree.
Naini Tal.
Pachmarhi.
Quetta.
Ranikhet.
Sabathu.
Solon.
Upper Topa.
Wellington.

Appendix XVI.

Mode of marking.

(Referred to in para. 107.)

Articles.	Marks to be put on each article.	Position of marks.	Stamps to be used.	Materials to be used.
(a) Public clothing.				
Badges, arm	Not marked	Inside top of leg	$\frac{1}{4}$ " stamp†	...
Boots, knee	Regt. or Corps No. and date of issue.	Inside on right of front facing.	$\frac{1}{2}$ " "	Marking ink.
Canvas-cloth-ing.	"	On the waist band.	"	"
Cap lines	"	Inside	$\frac{1}{2}$ " stamp	Marking ink.
Covers, greatcoat	Not marked	On the web	"	Paint.
Girdles	Regt. or Corps No. and date of issue.	Inside on middle of back.	"	"
Greatcoats*	"	Inside	$\frac{1}{4}$ " stamp	...
" " capes for	"	Inside sole at instep	$\frac{1}{2}$ " stamp	Marking
" " straps "	"	Outside underneath flap.	"	"
Gymnasium shoes	"	Inside on right front facing.	$\frac{1}{2}$ " stamp	Paint.
Haversacks	"	On the waist band	"	"
Helmet	Not marked	Inside top of leg	$\frac{1}{4}$ " stamp	...
fittings	Regt. or Corps No. and date of issue.	Inside on right front facing.	$\frac{1}{2}$ " stamp	Paint.
Magazine jackets	"	On the waist band	"	"
" " trousers	"	Inside top of leg	$\frac{1}{2}$ " stamp	"
" " boots	"	Inside do.	$\frac{1}{4}$ " stamp	"
" " shoes	"	Inside the bow	$\frac{1}{2}$ " stamp†	"
Spurs, jack	"	Inside top of leg	$\frac{1}{2}$ " "	Pai
Waders	"	Inside centre of back.	"	"
Waterproof coats with-out hoods.	"	"	"	"
Waterproof coats with hoods.	"	"	"	"
Waterproof capes with hoods.	"	Inside on middle of back.	"	"
Coats, warm, troops	"	"	"	"

* Cloaks, greatcoats and capes may be marked with a stencil plate with letters of the same size stamps, provided that no expense is caused to the public for stencil plates or brushes.
† In units which have no $\frac{1}{4}$ inch stamp, $\frac{3}{8}$ inch may be used.
‡ In units which have no $\frac{1}{2}$ inch stamp, $\frac{3}{4}$ inch may be used.

Articles,	Marks to be put on each article.	Position of marks,	Stamps to be used.	Materials to be used,
(b) Personal clothing.				
Boots, ankle . . .	Regt. or Corps No. and date of issue.	Inside top of quarters.	$\frac{1}{4}$ " stamp*	...
" Wollington . . .	" "	Outside top of leg behind.	" "	...
Caps, Field . . .	" "	Inside on side	$\frac{1}{2}$ " stamp	Paint.
" Forage . . .	" "	" "	" "	"
" " cover for . . .	" "	Inside the crown . . .	" "	"
" Glengarry . . .	" "	Inside on side . . .	" "	"
Drawers, calico . . .	" "	On the waist band . . .	" "	Marking ink.
Drawers, cotton . . .	" "	" "	" "	"
Frocks, Tartan . . .	" "	Inside on right front facing.	" "	Paint.
Frocks, drill, white . . .	" "	" "	" "	Marking ink.
" drill, khaki . . .	" "	" "	" "	"
" sergo . . .	" "	" "	" "	Paint.
Gaiters, leather . . .	" "	On the inside . . .	$\frac{1}{4}$ " stamp*	"
Gloves . . .	" "	" "	$\frac{1}{4}$ " stamp	"
Gauntlets . . .	" "	" "	" "	"
Gymnasium trousers . . .	" "	On the waist band . . .	" "	Marking ink.
Helmet . . .	" "	On the inside . . .	" "	Paint.
" cover . . .	" "	" "	" "	"
Jacket dress . . .	" "	Inside on right front facing.	" "	"
" undress . . .	" "	" "	" "	"
Jarseys . . .	" "	Inside at bottom . . .	" "	"
Kilts . . .	" "	Inside on plaits at back.	" "	"
" apron for . . .	" "	Inside at back . . .	" "	"
Knickerbockers, sergo . . .	" "	On waist band . . .	" "	Marking ink.
Pads, shoulder . . .	" "	Inside . . .	" "	Paint.
Pantaloons cloths . . .	" "	Inside the waist band.	" "	Marking ink.
" cord khaki . . .	" "	" "	" "	"
" tartan . . .	" "	" "	" "	"
Flaids . . .	" "	Inside at top . . .	" "	Paint.
Putties, khaki . . .	" "	On back in centre . . .	" "	"
Sash . . .	Not marked . . .	Not marked . . .	" "	...
Scarves . . .	" "	" "	" "	...
Shoes, leather . . .	Regt. or Corps No. and date of issue.	Inside top of quarters.	$\frac{1}{4}$ " stamp*	...
" canvas . . .	" "	Inside sole at in-step.	" "	...
Spats, white . . .	" "	Inside . . .	$\frac{1}{2}$ " stamp	Marking ink.
" khaki . . .	" "	" "	" "	"
Trows . . .	" "	Inside the waist-band.	" "	"
Trousers, cloth . . .	" "	" "	" "	"
" drill, khaki . . .	" "	" "	" "	"
" " white . . .	" "	" "	" "	"
" sergo . . .	" "	" "	" "	"
" tartan . . .	" "	" "	" "	"
Tunics, cloth . . .	" "	Inside on right front facing.	" "	"

* In units which have no $\frac{1}{4}$ inch stamps, $\frac{3}{8}$ inch may be used.

(c) Necessaries.

Bag, kit . . .	Regt. or Corps and No.	On the outside . . .	$\frac{1}{2}$ " stamp	Paint.
" stable . . .	" "	" "	" "	Marking ink.
" waterproof . . .	" "	" "	" "	Paint.
" waterproof, hook for . . .	Not marked . . .	Not marked . . .	" "	...
Blacking tin . . .	" "	" "	" "	...

Articles.	Marks to be put on each article.	Position of marks.	Stamps to be used.	Materials to be used.
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(c) *Necessaries—contd.*

Prases . . .	Regt. or Corps, etc., and No.	On the webbing .	$\frac{1}{4}$ " stamp*	Marking ink.
Brass button . . .	" "	Along the side .	" "	
Brush, blacking . . .	" "	On the edge .	" "	
" brass . . .	" "	" .	" "	
" clothes . . .	" "	" .	" "	
" hair . . .	" "	" .	" "	
" hard . . .	" "	" .	" "	
" lace . . .	" "	Along the handle .	$\frac{1}{4}$ " branding irons.	
" polishing . . .	" "	On the edge .	$\frac{1}{4}$ " stamp.*	
" shaving . . .	" "	Round the side .	Sharp pointed knife.	
" tooth . . .	" "	Along the handle .	$\frac{1}{4}$ " branding irons.	
Comb hair . . .	" "	Along the side .	" "	
Fork . . .	" "	Along the handle .	" "	
Garters . . .	" "	As decided by the O. C.	" "	
Holdall . . .	" "	On the centre band .	$\frac{1}{4}$ " stamp	Marking ink.
Hose tops . . .	" "	As decided by the O. C.	" "	
Housewives . . .	" "	On the inside .	$\frac{1}{4}$ " stamp	Paint.
Identity discs . . .	Number, name, Regt., Religious denomination.	" "	$\frac{1}{8}$ " " †	
Jerseys . . .	Regt. or Corps, etc., and No.	On the welt at bottom.	$\frac{1}{4}$ " "	Paint.
Knives, clasp . . .	" "	Along the handle .	$\frac{1}{4}$ " branding irons.	
" table . . .	" "	" "	$\frac{1}{8}$ " stamp.†	
Mitts, worsted . . .	" "	On the inside .	$\frac{1}{4}$ " " •	Paint.
Purse and belt . . .	" "	On pocket and strap.	$\frac{1}{4}$ " " •	
Razor . . .	" "	Along the handle .	$\frac{1}{4}$ " branding iron.	
Rubber, horse . . .	" "	On one corner .	$\frac{1}{4}$ " stamp	Marking ink.
Shirts, flannel . . .	" "	On tape below front opening.	$\frac{1}{4}$ " "	"
Socks, worsted . . .	" "	On upper part of leg.	$\frac{1}{4}$ " "	Paint.
Spoon . . .	" "	Along the handle .	$\frac{1}{4}$ " " *	
Sponge, pipeclay . . .	Not marked .	Not marked .	" "	
Spurs, swan-neck . . .	Regt. or Corps, etc., and No.	Inside the bow .	$\frac{1}{8}$ " stamp.	
Towels . . .	" "	On one corner .	$\frac{1}{4}$ " "	Marking.

* In units which have no $\frac{1}{4}$ inch stamp $\frac{3}{16}$ inch stamp may be used.
† In units which have no $\frac{1}{8}$ inch stamp $\frac{1}{16}$ inch may be used.

(d) *Clothing, condemned, for sale.*

All articles of cloth or similar material.	Inverted broad y arrows.	} On the inside of the article as near the Government mark as sible.	2" stamp (each broad arrow 1" long)	Paint.
All articles of leather or other similar material.	" " y			

Appendix XVII.

(Referred to in para. 135.)

The following garments are either interchangeable or are considered "equivalents" between the United Kingdom, stations abroad and India and are continued in wear in India, the letters I and E designate the 2 classes, respectively:—

All services.

1. Boots, ankle	I	Stations abroad and India.
2. Frock, khaki	I	" " "
3. Helmet, Wolsley	I	" " "
4. Jersey or cardigan waistcoat	E	Home stations, abroad and India.
5. Trousers, cloth, tweed or sergo	I	" " "
6. " khaki	I	Stations abroad and India.

Cavalry.

1. Boots, Wellington	I	Home stations, abroad and India.
2. Drawers, cotton	I	" " "
3. Gauntlets (except Hussars)	I	" " "
4. Gloves, leather	I	" " "
5. Pantaloon, cloth	I	" " "
6. " Bedford cord* or khaki cotton cord	I	Stations abroad and India.
7. Putties	E	Home stations, abroad and India.
8. Tunic	I	Home stations, Egypt and India.
9. Frock, serge	E	Stations abroad, except Egypt and India.

Royal Artillery.

1. Boots, Wellington	I	Home stations, abroad and India.
2. Drawers, cotton	I	" " "
3. Frock, tartan, or sergo	I	Stations abroad and India.
4. Gloves	I	Home stations, abroad and India.
5. Jacket, dress (R. H. A.)	I	" " "
6. Pantaloon, cloth or tartan	I	" " "
7. " Bedford cord or khaki cotton cord	I	Stations abroad and India.
8. Putties of R. G. A. (except H. B.)	E	Home stations, abroad and India.

Royal Engineers.

1. Frock, serge	E	Stations abroad and India.
2. Gloves	I	Home stations, abroad and India.
3. Pantaloon, cloth or tartan	E	" " "
4. " Bedford cord* or khaki cotton cord	I	Stations abroad and India.
5. Putties	E	Home stations, abroad and India.

Rifled Highlanders and Pipers of H. L. I.

1. Shoes	I	Home stations, abroad and India.
2. Caps, Glengarry	I	" " "
3. Drawers, woollen	E	" " "
4. Frock, serge	E	Stations abroad and India.
5. Jacket, undress	I	Home stations, abroad and India.
6. Kilt	I	" " "
7. Kilt, apron for	I	" " "
8. Plaids or scarves	I	" " "
9. Sashes	I	" " "
10. Spats, white, khaki or drab	I	" " "
11. Trews, tartan	I	" " "

Other Infantry and Army Ordnance Corps.

1. Flank	I	Home stations, abroad and India.
2. Frock, serge	E	Stations abroad and India.
3. Frock, tartan (Rifles only)	I	" " "
4. Jacket, undress (H. L. I. only)	I	Home stations, abroad and India.
5. Putties	E	" " "
6. Sash	I	" " "
7. Scarf (H. L. I. only)	I	" " "
8. Trews, tartan	I	" " "

Schoolmasters.

1. Frock, serge	I	Stations abroad and India.
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*Notes.—Home pattern Bedford cord pantaloons in possession of troops arriving from the United Kingdom may also be continued in wear in India.

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PREFACE.

THIS volume of Army Regulations, India, contains the orders of the Government of India on ordnance matters. It is intended primarily for the use of officers of the Ordnance Department. Such subsidiary instructions as may be necessary for the efficiency of the department will be framed in accordance with the spirit of these orders, and will be issued by the Director General of Ordnance.

2. Officers are expected to interpret these regulations reasonably and intelligently with a due regard for the interests of the public service. No attempt has been made to prescribe for necessary but self-evident exceptions, nor for such matters of detail as should be provided for by the Director General of Ordnance.

3. The other volumes of regulations with which the Ordnance Department is concerned are :—

Field Service and Mobilisation Regulations, Mannuals, Store Tables,

Indian Addendum to the Priced Vocabulary of Stores.

Instructions for Armourers, India.

Magazine Regulations, India.

Equipment Tables of—

Bengal and Assam Military Police.

Burma, Malwa and Mewar Military Police Battalions.

Civil Police and Jails.

Army Regulations, India, Vol. I, "Pay and allowances."

" " " " II, "Regulations and Orders for the Army."

" " " " III, "Financial Instructions."

" " " " VI, "Medical."

" " " " VII, "Dress."

" " " " IX, "Volunteers."

" " " " X, "Passages."

" " " " XI, "Clothing."

" " " " XII, "Military Works."

Army Tables, "Establishments and Supplies."

King's Regulations, Army Act and Indian Army Act.

(This book is corrected up to 1-3-16).

B. HOLLOWAY,

Major-General,

Secretary to the Government of India.

Abbreviations.

A. D. O. I.	Assistant Director of Ordnance Inspection.
A. D. O. S.	Assistant Director of Ordnance Stores.
A. G.	Adjutant-General.
A. O. C. O.	Assistant Ordnance Consulting Officer.
A. R. I.	Army Regulations, India.
C. C. M. A.	Chief Civil Master Armourer.
C.-in-C.	Commander-in-Chief.
C. I.	Chemical Inspector.
C.S.	Civil Service.
C. S. R.	Civil Service Regulations.
D. A. D. O. S.	Deputy Assistant Director of Ordnance Stores.
D. D. E.	Deputy Director of Equipment.
D. D. O. F.	Deputy Director of Ordnance Factories.
D. D. O. S.	Deputy Director of Ordnance Stores.
D. G. O.	Director-General of Ordnance.
Divl. Comdr.	General Officer Commanding a Division.
D. O. F.	Director of Ordnance Factories.
D. O. I.	Director of Ordnance Inspection.
D. O. S.	Director of Ordnance Stores.
F. O.	Financial Officer.
G. C.	Gun Carriage.
G. O. C.	General Officer Commanding.
G. of I.	Government of India.
G. and S. F.	Gun and Shell Factory.
H. and S.	Harness and Saddlery.
I. A. F.	India Army Form.
I. A. O.	India Army Order.
I. O. C. O.	India Ordnance Circular Order.
K. R.	King's Regulations.
M. A. D.	Military Accounts Department.
M. L. E.	Magazine Lee-Enfield.
M. W. S.	Military Works Services.
O. C.	Officer Commanding.
O. C. O.	Ordnance Consulting Officer.
O. C. R. A.	Officer Commanding Royal Artillery.
R. A.	Royal Artillery.
R. G. A.	Royal Garrison Artillery.
S. of S.	Secretary of State.
S. C. M. S. A.	Senior Controller of Military Supply Accounts.
W. and N. C. O.	Warrant and Non-Commissioned Officer.

Definitions.

"Ordnance officer"	An officer appointed to the department as such from the Royal Artillery.
"Administrative officer"	The D. O. F. in the case of factories, D. O. I. for Inspection Section and D. O. S. for Stores Section.
"Executive officer"	The Superintendent of a factory, Inspector in the Inspection Section or the Ordnance Officer in charge of an arsenal or dépôt.



Duties of
A. D. O. S.

9. Each of these areas is the charge of an A. D. O. S. who is the technical adviser of the Divl. Comdr. or in the case of a two divisional area of both Divl. Comdrs., and subject to his or their orders in regard to all matters, as between the supplies of all ordnance equipment and the Army. Under the orders of the Divl. Comdr. he will make tours within his area, visiting units and performing inspections, thereby making himself acquainted with any points on which legitimate cause of complaint exists, and thus bringing the supplying department into closer touch with units.

He will make himself acquainted with the nature and requirements of the armaments and equipments within his area of supply, and will bring to notice any apparent waste, misappropriation, or undue condemnation of ordnance stores by corps or departments.

Personnel.

Ordnance Officers.

Officers how
borne on
R. A. list.

10. All officers of the R. A. serving in the Indian Ordnance Department are seconded under the provisions of the Royal Warrant. Continuous service officers are regarded as having completed their career in the R. A.

Officers' uni-
forms.

11. A Director of the rank of substantive colonel will wear the uniform prescribed for that rank. R. A. Ordnance officers will wear the uniform of the branch of the regiment to which they belong (officers of the R. G. A. as mounted officers) until selected for continuous service when they will wear the uniform prescribed for the R. G. A.

Subscription-
tions to
R. A. band.

12. Ordnance officers are liable to subscribe to the R. A. band and must pay their subscriptions by the 1st of April annually. Continuous service officers above the rank of captain are exempt from payment of subscriptions.

Privilege
leave com-
bined with
duty in
England.

13. Officers sent to England on duty for a short period may be permitted to combine privilege leave with such duty, on the following conditions:—

(a) Not more than four officers should be allowed the concession in one year.

(b) That the total period of absence of any officer from India shall not exceed eight months.

(c) That the grant of privilege leave shall involve loss of free passage, homeward, if leave is taken before the duty commences, or outwards, if leave is taken after the duty is completed.

(d) That the time spent on the journeys to and from India shall be included in the officer's privilege leave.

Deputation
to England.

14. All deputations to England for courses of instruction must be sanctioned by the G. of I. who will inform the S. of S.

Europeans.

Recruitment
for the
Factory and
Inspection
Sections.

15. Recruitment for the Factory and Inspection Sections will be made from serjeants and staff serjeants on the arsenal list of not more than three years' standing. Recruits remain on probation for one year. The senior conductor on this list whether employed in the Factory or Inspection Section may, if qualified and recommended, be promoted to assistant commissary on a vacancy occurring. Vacancies in the Factory or Inspection Section will be filled by transfers between establishments of either Section or between the Factory and Inspection Sections if thought desirable, the last man in the chain to complete the establishment being obtained from an arsenal. Serjeants and staff serjeants officiating in the Factory or Inspection Sections will receive the same pay as if employed in arsenals less staff pay at Rs. 20 per mensem. Serjeants and staff serjeants whether permanent or officiating will receive the extra staff allowance of Rs. 30 per mensem.

Promotion
of factory
and clerical
employees.

16. Departmental officers, W. and N. C. Os., borne on the arsenal list serving in Factories or the Inspection Section, and those borne on either list serving as clerks will be seconded and promoted when the individual next below them on the effective list obtains his promotion.

17. For the defence of factories, all civilian gazetted and non-gazetted officers, W. and N. C. Os., and subordinates, serving in them (including those of the Inspection Section), will be provided with M. L. E. rifles and bayonets and must fire an annual course of 20 rounds. 200 rounds of ammunition per rifle will be maintained in each factory. Defence of factories.

18. Departmental officers in arsenals will take charge of divisions in the same manner as junior ordnance officers. They will specially exercise supervision of the European and Indian establishments in all matters relating to discipline. Duties of departmental officers.

19. A seniority roll of staff serjeants and serjeants (I. A. F. O. 1439) will be kept by the D. O. S., for those on the arsenal list, in which every casualty affecting their standing is to be entered. A similar roll will be maintained by the D. O. F. for those on the factory and inspection list. Roll of serjeants.

20. C. C. M. As. will inspect the small arms of units, and machine guns of units and armaments, under the orders of the D. O. I. When on tour they will inspect, if called upon to do so, the arms in possession of the police at any station they may visit in the course of their duties. Duties of C. C. M. A.

21. A civilian gazetted or non-gazetted officer, or subordinate, when deputed on duty to England, or detained on duty in England during privilege leave, is entitled to the following allowances from the date of handing over, to the date of resumption of, his duties in India:— Civilians deputed to England.

(a) When serving under the C. S. Regulations.

(1) Two-thirds of Indian pay converted at the rate of 1s. 6d. per rupee during the period pay is drawn from the home treasury of the G. of I., and two-thirds of Indian pay in rupees, plus exchange compensation allowance, for the period on the way out to India.

(2) House-rent allowance of 3s. a day if entitled to quarters or house-rent allowance in India. If provided with quarters in India, he may retain them for the use of his family, and forego the above allowance.

(3) Travelling expenses and subsistence* allowance at the under-mentioned rates when required to visit factories at a distance from his usual place of instruction—

21s. a day for an officer whose pay or maximum pay of appointment is Rs. 550 a month or more; 15s. a day for an officer whose pay is more than Rs. 400 but less than Rs. 550 a month; 10s. a day for other officers. Subordinates will draw subsistence allowance at 10s. a day for the first week and 5s. thereafter. Half rates for 1st and last days of a journey.

(b) When serving under a covenant.

(1) *Gazetted Officers.*—The same allowances as authorized in clause (a) for officers serving under the C. S. R.

(2) *Other Civilians.*—Full Indian salary (including exchange compensation allowance if in receipt of the same) and house-rent allowance, converted at 1s. 4d. the rupee, with travelling and subsistence allowances as provided for in clause (a).

22. Civilian gazetted and non-gazetted officers and subordinates serving under agreements may be granted leave as provided for under Article 202 (a) and Note thereto, C. S. R., or such other leave, as may at any time be specially provided for in their agreements. They are subject to such penalties for misconduct as may be provided for in their agreements. Penalties for misconduct, and leave of civilians.

Applications for leave (other than privilege and casual) to the above should be forwarded by executive officers to the respective Directors for sanction, accompanied by proposals for carrying out the duties of the individual applying for leave.

* The full rate applicable to any officer will be admissible for a period not exceeding a fortnight in one place; after that half rate will be allowed.

Residence during courses of instruction.

23. Civilian gazetted and non-gazetted officers, W. and N. C. Os., and subordinates, deputed to England for a course of instruction, must reside near the place of instruction. They will be allowed travelling expenses for themselves, but not for their families, from the port of disembarkation to the place of instruction, or to their intended places of residence, and back again on return to India.

Courses of instruction whilst on leave.

24. Civilian gazetted and non-gazetted officers, W. and N. C. Os., and departmental officers in special cases, may be selected by the D. G. O. to go through a course of instruction when on furlough. Attendance at a course will form no ground for any extension of leave. The D. G. O. will inform the Military Secretary, India Office, of the particular course recommended. The Military Secretary will inform the individual concerned, who will not join without orders nor can he withdraw without sanction. He must produce evidence that he is in a fit state to go through the course. For this purpose he will—

(a) if within 30 miles of London, appear before the medical board at the India Office on a Tuesday at 1 p.m.,

or

(b) if over 30 miles from London, furnish a certificate signed by a qualified medical practitioner.

In case (a) travelling expenses, at first class railway fare for departmental officers, civilian gazetted officers, and C. C. M. As.; 2nd class for warrant officers and other civilian non-gazetted officers and subordinates, and 3rd class for N. C. Os., will be allowed to and from London. In case (b) 5s. will be allowed for the medical certificate.

Instruction at Woolwich.

25. All N. C. Os. proceeding on furlough to England who are recommended for a course of instruction at Woolwich must report themselves immediately on arrival in England to the O. C. R. A. district staff at Woolwich, either by letter or personally as may be most convenient.

Travelling expenses, courses.

26. Any civilian gazetted and non-gazetted officers, departmental officers, W. and N. C. Os., and subordinates attending a course of instruction during, or in extension of his leave, will be granted travelling expenses for himself, but not for his family, at the rates named in para. 24.

(1) Between his home and the places of instruction both on commencing and finishing the course.

(2) Between the recognised place of instruction and any factories at a distance which he may have to visit, and back.

If, while undergoing instruction in any part of his course, he is specially ordered to visit factories at a distance from the recognised places of instruction, he will receive a subsistence* allowance of 10s. a day for the first week, and 5s. a day thereafter. For the first and last days of a journey it will be limited to 5s. For a return journey in one day, if sufficiently long to necessitate any expense besides that of conveyance, 2s. will be allowed. Claims for excess baggage, not exceeding 2 cwt., must be supported by vouchers. Cab fares will not be allowed when railway conveyance is available, and will in no case exceed 5s. in any single journey. Claims for the travelling expenses of families are inadmissible.

Courses of instruction in England.

27. The ordinary courses of instruction which W. and N. C. Os. may attend in England are detailed in Appendix IV. Classes for skilled mechanics who require to study the details of manufacture are formed at any convenient time.

Medical certificate.

28. If prevented at any time from attendance, by sickness, the individual concerned must furnish a medical certificate.

Certificates of proficiency.

29. Certificates of proficiency granted at the conclusion of a course will be sent to the G. of I. by the India Office for transmission to the individual concerned.

* This allowance will not be issued for more than 14 days during residence in any one place, unless specially authorised.

ized holidays, and on Saturdays when they may close two hours earlier. Factories will work 46 hours a week exclusive of intervals of rest. The executive officer must grant half-an hour's interval during the day in accordance with the Factory Act. In cases of emergency all employes can be called upon to work extra hours by day or night, but no systematic overtime work may be carried on without previous sanction of the administrative officer. Permanent employes will not be granted extra pay for overtime work except for more than 30 hours of such work within a period of 30 days, and for full work on Sundays and authorized holidays.

Attendance Registers.

37. Every W. and N. C. O. and civilian employé of similar status, and permanent clerks employed in factories and arsenals provided with a clock register will initial or sign it on arrival. In ordnance establishments where there is no clock register an attendance book will be maintained in lieu.

Passes for stores.

38. No stores may pass out of an ordnance establishment unless accompanied by, and entered on, an authorised pass signed by an ordnance or departmental officer of the department.

Indians to be searched.

39. All vehicles, and every Indian, except clerks, supervisors, sirdars, tindals, mistris, store accountants, sepoy, and pensioners, will be carefully searched when passing out of an ordnance establishment. The executive officer may, in case of suspicion, cause any or all of the above mentioned to be searched.

Divisions of arsenals and depôts.

40. Each arsenal or depôt consists of the divisions shown in Appendix XI-A, A. R. I., Vol. II.

The more important divisions of an arsenal or depôt are placed in charge of selected senior warrant officers. Those of less importance are in charge of other W. or N. C. Os. Each storeholder's charge should be concentrated as much as possible in one or adjacent buildings. Every store room will have its divisional number, (see A. R. I., Vol II, Appendix XI-A), its contents (except when outside the arsenal enclosure) according to vocabulary sectional heading, and its serial arsenal number, clearly painted on the outside. Executive officers will generally superintend and periodically inspect all divisions, delegating to junior officers their immediate supervision.

Stores.

Reserves.

41. Reserves must be kept complete, in thoroughly serviceable condition, and ready for immediate use. They must not be issued for ordinary purposes without the prior sanction of the D. G. O.

When reserves are issued for the purpose for which they are maintained, issues are not to be made in excess of the amounts sanctioned for that purpose, nor is one reserve to be encroached upon for issue to another without prior sanction of the D. G. O., except in cases of extreme urgency, when the issue may be made on the responsibility of the demanding officer.

Stores to be accounted for in ledgers.

42. All receipts and issues of stores, whether external or internal, must be posted in the storeholder's ledgers except those for deposit stores. Ledgers will be maintained on a system of loose sheets bound in guard books but removable at will. The carbon duplicating process will be employed in posting, the sheets being in sets of three. One will be detached and sent to the S. C. M. S. A. each half year. In the ordnance factories the sheet will be sent to the Chief Accountant, office of the D. O. F. Separate ledgers will be kept up for reserves, and these will be checked, at least once a year, by an inspector of accounts. Appendix and pattern ledgers will not be sent to the S. C. M. S. A.

Stores for departmental use, how accounted for.

43. All plant will be posted in an establishment plant list, and all stores in use, excepting expendable articles, which will be written off to divisional or shop charges, will be posted in appendix lists which will show the branch to which they belong.

Articles in use may be brought on the appendix list in bulk.

44. All original indents and receipt and delivery vouchers, ^{Indents and vouchers to be furnished to S. C. M. S. A.} will, on completion, be forwarded to the S. C. M. S. A. with the skeleton list (I. A. F. O. 1374). In the ordnance factories the receipt and delivery vouchers will be sent to the Chief Accountant, office of the D. O. F. The condition of stores received must be detailed in the delivery vouchers. When stores are issued to other departments, units in account with a different ordnance examiner, or to field arsenals or depôts on field service, receipt vouchers must be obtained and forwarded in duplicate.

Works.

45. When small ordnance works are executed under departmental ^{Works executed departmentally.} arrangements, with the concurrence of the M. W. S. authorities, the labour of the establishment concerned must be employed.

46. Guard rooms for the protection of lascar lines must be constructed and repaired at the expense of the line fund. When huts in the lines are maintained by the men, boundary walls should be similarly maintained at their expense. ^{Maintenance of lascar lines.}

47. Saponified cresol will be supplied as required by the medical ^{Supply of disinfectants.} store department.

Indents and Demands.

48. Intermediate demands, when necessary, will be prepared and submitted by executive officers under such orders as may be issued by the D. G. O., one copy of each sanctioned demand being sent without delay to the examiner of accounts concerned. Executive officers may, if necessary, purchase iron, steel, tin sheets and similar stores, in excess of sanctioned quantities, to avoid cutting bars, sheets, etc., but the excess quantities must be included in the next intermediate demand for formal sanction. ^{Intermediate demands.}

49. No work will be undertaken in Government workshops for any ^{Workshops.} private individual. In the case of Government servants, however, administrative officers may sanction the execution of private work, provided that this sanction is confined to jobs which could not be done elsewhere without great inconvenience.

Ledgers.

50. All stores are to be accounted for in the denominations and with ^{Ledgers.} the nomenclature shown in the authorized vocabularies.

Stores borne in tons and cwts. are not to be accounted for in lower terms than lbs. ; 8 ozs. and upwards being regarded as 1 lb., and anything under 8 ozs. being ignored. Stores borne in lbs. are to be accounted for in lbs. and ozs. only, anything over $\frac{1}{2}$ oz. being considered as an ounce, and anything under $\frac{1}{2}$ oz. being ignored.

Liquids will be borne in gallons, pints and gills only.

Measurement of timber by cubic and square measure is to be entered only to the second place of decimals.

Fractions, decimals, and minute quantities generally, are to be avoided as much as possible.

51. No corrections of any description are to be made without the ^{Corrections to ledgers.} approval and initials of the group officer.

52. On 1st April such corrections as may be necessary owing to ^{Changes in nomenclature.} changes in nomenclature should be made to the ledger headings, stores being transferred to new headings where required ; I. A. F. O. 1371 will be employed in arsenals for any such changes required to be made between divisions in current ledgers. In the ordnance factories, I. A. F. Z. 2098 will be used for all such changes in ledger headings.

53. For the rules as to the method of stock-taking see the Regula- ^{Stock-taking.} tions for Indian Ordnance Services.

Appendix I—contd.

II.—Military and Civilian Gazetted Officers.—Manufacturing Section.

Designation.	Office of D. O. F.	Gun and Shell Factory.	AMMUNI- TION FACTO- RIES.		Cordite Factory.	Gun Carriage Factory.	Harness and Saddlery Factory.	Rifle Factory.	REMARKS.
			Dum Dum.	Kirkee.					
<i>Military.</i>									
Superintendents . . .	...	1 (b)	1	1	1	1	1	(a)	(a) Civilian Gazetted Officer. (b) 1 at Ishaporo Branch. When available.
Assistant Superintendents . . .	...	2	1	1	1	1	1	1	
2nd Assistant Superintendents	...	1	1	...	...	1	...	1	
Danger Building Officer . . .	...	...	...	...	1	...	...	...
Departmental Officers . . .	...	2	1	1	1	1	1	1	
<i>Civilian.</i>									
Chief Accountant . . .	1	...	...	...	...	...	...	...
Civil Engineer Adviser . . .	1	...	...	...	...	...	...	...
Deputy Accountant . . .	1	...	...	...	...	...	...	...
Civil Engineer Assistant . . .	1	...	...	...	...	...	...	...
Manager and Chemist . . .	...	...	...	...	1	...	...	...
Engineering Manager . . .	...	...	...	...	1	...	...	...
Managers . . .	...	1	1	1	...	1	1	1	
Chemists . . .	...	...	...	...	3	...	...	...
Steel Works Manager . . .	...	1	...	...	...	...	...	...

Appendix I—contd.

III.—Military and Civilian Gazetted Officers.—Inspection Section.

Designation.	AMMUNI- TION.		C. I. Establishment, Naini Tal.	Gun Carriages and Vehi- cles, Jubbulpore.	Guns and Rifles, Ishapore.	General Stores, Cawnpore.	Proof and Experimental Establishment, Balasore.	REMARKS.
	Dum Dum.	Kirkee.						
<i>Military.</i>								
Inspectors'	1	...	...	1	1	...	...	(a) 2 for duty as addi- tional Assistant Inspec- tors where required. † 1 each at Bombay, Quetta, Kirkee, Rawal Pindi and Calcutta.
Assistant Inspectors . . .	1	1	...	1	1	1	...	
Proof Officer . . . .	...	...	...	...	...	...	1	
Assistant Proof Officer . . .	...	...	...	...	...	...	1	
Attached Officers (a) . . .	...	...	...	...	...	...	...
Inspectors of Ordnance Machi- nery.	...	...	...	5†	...	...	...
<i>Civilian.</i>								
Chemical Inspector . . .	...	...	1	...	...	...	...
Assistant Chemical Inspector . . .	...	...	1	...	...	...	...





Appendix I—contd.

VIII(a).—European establishments.—Arsenals and Depôts.

Designation.	ARSENALS.							DEPÔTS.				REMARKS.
	Allahabad.	Ferozepore.	Kirkee.	Madras.	Quetta.	Rangoon.	Rawal Pindi.	Agra.	Bombay.	Fort William.	Karachi.	
<i>Military.</i>												
Assistant Directors of Ordnance Stores.	1	1	1	1	1	1	1	...	...	...	...
Ordnance Officers . . .	3	4	4	3	3	1	4	...	..	1	...	
Commissaries . . .	1	1	1	1	1	1	1	...	...	1	1	
Deputy Commissaries . . .	...	1	1	...	...	...	1	...	...	...	...
Assistant Commissaries . . .	1	2	2	1	1	1	2	1	...	...	1	
Conductors . . .	10	12	12	9	8	6	12	2	1	3	3	
Sub-Conductors . . .	10	11	12	9	8	7	11	2	1	4	3	
Staff-Serjeants . . .	20	23	24	18	16	13	23	4	2	7	6	
Armourer-Serjeants—												
Permanent—												
Armourer Foreman.	1	1	1	1	1	1	1	...	...	...	...
Reserve . . .	1	3	3	1	1	...	3	...	...	1	1	
<i>Civilian.</i>												
Foreman . . .	...	1	...	...	1	...	1	...	...	...	...
Assistant Foreman . . .	...	1	2	...	...	...	1	...	...	...	...

VIII(b).—European departmental establishment.—Factory and Inspection Sections.

Rank.	Number.	REMARKS.
Commissaries	2	
Deputy Commissaries	2	
Assistant Commissaries	4	
Conductors	20	
Sub-Conductors	20	
Non-commissioned Officers	43	

Appendix I—contd.

IX.—Indian establishments.—Arsenals and Depôts—contd.

Designation.	Monthly Salary.	ARSENALS.						DEPÔTS.				REMARKS.	
		Allahabad.	Ferozepore.	Kirkee.	Madras.	Quetta.	Rangoon.	Rawal Pindi.	Agra.	Bombay.	Fort William.		Karachi.
	Pay of grade. Rs. a			(a)									
Engine-driver	100 0	...	...	1	...	...	...	...	...	...	...	1	
" "	75 0	...	...	...	...	1	...	...	...	...	...	...
" "	45 0	...	...	...	...	...	...	...	...	...	...	...
" "	15 0	...	1	...	...	...	...	1	...	...	...	...
" "	12 0	2	...	...	...	...	...	...	...	...	...	...
Filemen mistri	30 0	...	...	...	...	...	1	...	...	...	...	...
Filemen	20 0	...	...	...	...	1	...	...	...	...	...	...
"	18 0	...	...	...	...	...	...	...	...	...	3	...	
"	15 0	...	...	...	...	...	2	...	...	...	...	...
"	12 0	...	1	...	...	...	...	...	...	...	...	...
"	10 0	3	...	...	...	...	...	...	...	...	...	...
"	9 0	3	...	...	...	...	...	...	...	...	...	...
"	8 0	...	...	...	...	...	...	1	...	...	...	...
Firemen	25 0	...	...	...	...	1	...	...	...	...	...	...
"	15 0	...	1	...	...	...	1	...	...	...	3	...	
"	10 0	...	...	...	...	...	...	1	...	...	3	...	
"	9 0	2	...	...	...	...	...	...	...	...	...	...
"	7 0	2	...	...	...	...	...	...	...	...	...	...
Fitter mistri	100 0	...	1	...	...	...	...	...	...	...	...	...
Hammermen	16 0	...	...	...	...	...	1	...	...	...	...	...
"	15 0	...	...	...	...	...	1	...	...	...	...	...
"	12 0	...	...	...	...	...	3	...	...	...	...	...
"	10 0	...	...	...	...	...	...	...	...	...	6	...	
"	7 8	...	...	...	1	...	...	...	...	...	...	...
"	7 0	...	1	...	2	...	...	...	...	...	...	...
Painter mistri	15 0	...	1	...	...	...	...	...	...	...	1	...	
" "	10 0	1	...	...	...	...	...	1	...	...	...	...
Painter	18 0	...	...	...	...	1	2	...	...	...	...	...
"	17 0	...	...	...	...	...	...	...	...	...	...	1	
"	10 8	...	...	...	1	...	...	...	...	...	...	...
"	10 0	...	...	...	...	...	...	...	...	...	2	...	
"	8 8	...	...	...	1	...	...	...	...	...	...	...
"	8 0	2	1	...	...	...	...	1	1	...	...	...
"	6 0	2	...	...	...	...	...	...	...	...	...	...
Polisher mistri	17 8	...	...	...	1	...	...	...	...	...	...	...
Polisher	15 0	...	...	...	...	...	7	...	...	...	...	...
"	7 8	...	...	...	4	...	...	...	...	...	...	...
Sail-maker mistri	15 0	...	1	...	...	...	...	...	...	...	1	...	
" "	10 0	1	...	...	...	...	...	1	...	...	...	...
Sail-maker	15 0	...	...	...	...	1	...	...	...	...	...	...
"	12 0	...	...	...	...	...	...	...	...	...	3	...	
"	7 0	3	1	...	...	...	...	1	...	...	...	...
"	6 0	3	...	...	...	...	...	...	...	...	...	...
Sawyer	15 0	...	...	...	...	...	2	...	...	...	...	...
"	7 0	...	1	...	...	...	...	...	...	...	...	...
Siklegar mistri	15 0	...	...	...	...	...	...	1	...	...	...	...
" "	11 0	2	1	...	...	...	...	1	...	...	...	...
Siklegar	13 0	...	...	...	...	1	...	...	...	...	...	...
"	7 0	11	...	...	...	...	...	...	...	...	...	...
"	5 0	20	...	...	...	...	...	...	...	...	...	...
Smith mistri	40 0	...	...	...	...	...	1	...	...	...	...	...
Stoker	12 0	...	1	...	...	1	...	...	...	...	...	...
"	8 0	2	...	...	...	...	...	1	...	...	...	...

(a) The pay, Rs. 100, to be reduced to Rs. 60 when the present incumbent becomes non-effective (M. D. No. 417-D., dated 27th September, 1904).

X.—Clerical and menial establishments.—Administrative offices.

20



Appendix I—*contd.*X.—Clerical and menial establishments.—Administrative offices—*contd.*

Designation.	MONTHLY SALARY.			OFFICE OR		REMARKS.
	Minimum.	Annual increment.	Maximum. (a)	Head-quarters, Ordnance Branch. (b)	D. O. F.	
CLERICAL ESTABLISHMENT— <i>contd.</i>	<i>Rs.</i>	<i>Rs.</i>	<i>Rs.</i>			
Civilian— <i>contd.</i>						
10th class clerk . . . . .	...	...	50	...	24	
11th " " . . . . .	...	...	40	...	19	
Draughtsman	50	2	50	...	1	
MENIAL ESTABLISHMENT.						
Daffrie	10	1	24	4	...	
" . . . . .	...	...	12	...	1	
" . . . . .	...	...	10	...	2	
Jamadar of Peon	12	1	15	1	...	
" " " . . . . .	...	...	11	...	1	
Peon . . . . .	...	...	10	4	1	
" . . . . .	...	...	9	5	4	
" . . . . .	...	...	8	10	9	
Farnash . . . . .	...	...	8	2	3	
Chowkidar . . . . .	...	...	8	1	...	
Bhistie . . . . .	...	...	7	...	2	
Sweeper . . . . .	...	...	7	3	4	
Durwan . . . . .	...	...	10	...	1	

(a) Fixed pay where no minimum and maximum are shown.

(b) All clerks on the permanent establishment of the Director-General of Ordnance on the 1st November 1888 are entitled to a special allowance of Simla allowances on the following scale, *viz.*, salary Rs. 500 and upwards, Rs. 25; Rs. 200 and under Rs. 500, Rs. 20; and under Rs. 200, Rs. 15. These allowances are doubled in the case of men with families.

Appendix I--contd.

XI.—Clerical and menial establishments.—Factories.

Designation.	MONTHLY SALARY.			G. and S. Factory, Cossipore.	AMMUNITION FACTORIES.		G. C. Factory, Jubbulpore.	H. and S. Factory, Cawnpore.	Rifle Factory, Ishapore.	REMARKS.
	Minimum.	Annual increment.	Maximum.		Dum Dum.	Kirkee.				
	Rs.	Rs.	Rs.							
CLERICAL ESTABLISHMENT.										
Head Clerk	180	12	240	1	1	...	1	1	1	
Clerk	110	10	160	2	1	1	1	1	1	
"	70	6	100	2	1	1	2	2	1	1
"	50	3	65	4	2	2	5	3	...	3
" . . . . .	...	...	60	2	1	1	1	1	1	1
" . . . . .	...	...	50	3	1	...	1	2	2	2
"	30	3	45	4	2	3	...	5	3	3
" . . . . .	...	...	40	4	2	2	4	3	1	1
"	20	4	40	...	...	...	...	1	...	
" . . . . .	...	...	30	6	6	3	...	10	5	10
" . . . . .	...	...	25	3	5	2	...	...	4	...
" . . . . .	...	...	20	...	...	...	...	1	...	
" . . . . .	...	...	18	...	...	...	1	...	...
Diagramsman	60	3	75	1	...	...	...	...	...
"	30	3	45	1	1	...	...	...	...
MENIAL ESTABLISHMENT.										
Menial servant . . . . .	...	...	10	...	...	1	...	...	...
" " . . . . .	...	...	9	1	...	...	...	1	...	
" " . . . . .	...	...	8	...	...	...	2	...	...	Plus Rs. 2 local allowance.



Appendix I—contd.

XII.—Clerical and menial establishments.—Inspection Section.

Designation.	MONTHLY SALARY.			AMMUNITION.		G. I. Establishment, Nainital.	Gun Carriages and Vehicles, Jubulpore.	Guns and Rifles, Ishapore.	General Stores, Cawnpore.	Proof and Experimental Establishment, Balasore.	REMARKS.
	Minimum.	Annual increment.	Maximum.	Dum Dum.	Kirkee.						
	Rs.	Rs.	Rs.								
CLERICAL ESTABLISHMENT.											
Head Clerk	60	5	160	...	...	1	...	...	...	...
" "	30	(a)	160	...	...	...	...	...	...	1	(a) Time scale.
" " . . . . .	...	...	90	1	...	...	1	1	...	...
" " . . . . .	...	...	65	...	1	...	...	...	1	...	
Clerk	30	(a)	160	...	...	...	...	...	...	1	
" . . . . .	...	...	65	1	...	...	2	1	...	...
"	30	3	60	...	...	1	...	...	...	...
" . . . . .	...	...	40	1	...	...	3	1	...	...
Chief Examiner's Clerks . . . . .	...	...	40	2	1	...	...	...	...	1	
Clerk . . . . .	...	...	35	1	1	...	...	1	1	...	
MENIAL ESTABLISHMENT.											
Sirdar . . . . .	...	...	12	1	...	...	...	...	...	...
Daftrie . . . . .	...	...	10	...	...	1	...	...	...	...
Peon . . . . .	...	...	8	...	...	2	...	...	...	...
" . . . . .	...	...	7	1	...	...	2	2	1	...	
Sweeper . . . . .	...	...	7	...	...	1	...	...	...	...
" . . . . .	...	...	6	...	...	...	2	2	...	...

Appendix I—contd.

XIII.—Clerical and menial establishments.—Arsenals and Depôts.

Designation.	MONTHLY SALARY.			ARSENALS.							DEPÔTS.				REMARKS.
	Minimum.	Annual increment.	Maximum.	Allahabad.	Ferozepore.	Kirkee.	Madras.	Quetta.	Rangoon. (a)	Rawal Pindi.	Agra.	Bombay.	Fort William.	Karachi.	
CLERICAL ESTABLISHMENT.	Rs.	Rs.	Rs.												
Clerks	180	12	240	1	1	...	...	...	...	1	...	...	1	...	
" . . . . .	...	...	200	...	...	1	...	...	...	...	...	...	...	...
"	150	10	200	...	...	...	1	...	...	...	...	...	...	...
"	110	10	160	1	1	...	...	1	...	1	...	...	1	...	
"	100	6	130	...	...	...	1	...	1	...	...	...	...	...
" . . . . .	...	...	110	...	...	1	...	...	...	...	...	...	...	...
" . . . . .	...	...	100	...	...	3	...	...	...	...	...	...	...	1	
"	70	6	100	2	1	...	...	1	...	2	...	...	1	...	
"	70	4	90	...	...	...	2	...	...	...	...	...	...	...
" . . . . .	...	...	70	...	...	1	...	...	...	...	...	1	...	...
"	50	3	65	3	3	...	3	2	1	4	1	...	2	...	
" . . . . .	...	...	60	...	...	6	...	...	...	...	...	...	...	1	
"	40	4	60	...	...	...	...	...	...	...	...	...	...	1	
" . . . . .	...	...	50	...	...	4	...	...	...	...	...	...	...	...
" . . . . .	...	...	45	...	...	2	...	...	...	...	...	...	...	...
"	30	3	45	6	5	...	5	3	3	7	1	...	3	...	
" . . . . .	...	...	40	...	...	7	...	...	...	...	...	...	...	1	
" . . . . .	...	...	35	...	...	2	...	...	...	...	...	...	...	...
" . . . . .	...	...	30	8	6	3	10	6	6	9	1	1	7	...	
" . . . . .	...	...	25	8	12	1	...	...	...	8	1	...	6	1	
" . . . . .	...	...	20	...	...	2	...	...	...	...	...	...	...	1	
" . . . . .	...	...	18	...	...	...	...	1	...	...	...	...	...	...
" . . . . .	...	...	15	...	...	1	...	...	...	...	...	...	...	1	
MENIAL ESTABLISHMENT.															
Daftrie . . . . .	...	...	20	...	...	...	...	...	1	...	...	...	...	...
" . . . . .	...	...	15	...	...	...	1	...	...	...	...	...	1	...	
" . . . . .	...	...	10	1	1	...	...	1	...	1	...	...	1	...	
" . . . . .	...	...	8	...	...	...	...	...	...	...	1	...	...	...

(a) Clerks at Rangoon are entitled to 50 per cent. "Foreign allowance" on their pay. Those whose pay is less than Rs. 80 are entitled to Rs. 45 until such time as their total emoluments amount to not less than that sum.

Authorized establishments.

Appendix I—continued. XIV.—Establishment of bullocks.

Factories. (a)	Arsenals.	Depôts.		
Cossipore. (b)			18	
Dum Dum.			24	
Kirkee.			12	
Arvankadu.			..	
Subbulpore.			10	
Cawnpore.			24	
Isbapore.			6	
Allahabad.			96	
Rerozepore.			36	
Kirkee.			44	
Madras.			64	
Quetta.			8	
Kawal Pindi.			96	
Rangoon.			12	
			24	
			..	
			96	
			12	
			..	
			24	
			96	
			12	

Bullocks (or Government bullocks when supplied by the Supply and Port Corps for daily use . . .

Appendix II.—Appointments.

No.	Appointment.	Qualifications for	Recom- mended by	Sanctioned by	How applied for	Tenure, years.	REMARKS.
1	<i>Ordnance Officers.</i> 1st appointment	R. A. officers on Home or Indian establishments with 4 years' completed service.	D. G. O.	C.-in-C.	Through G. O. C. to D. G. O. for enrolment as a candidate. Officers are appointed on application by D. G. O.	5	Preference will be given to officers who have passed (1) Advanced Class, (2) Ordnance Course, (3) H. S. Urdu, and (4) in the case of subalterns, who have passed for promotion. Failure to pass (3) and (4) within 1½ years from date of joining will render an officer liable to removal. (But see para. 23, A. R. I., Vol. I.) An officer wishing to resign must give 3 months' notice to D. G. O.
2	Extension of term for 5 years	.....	D. G. O.	C.-in-C.	Through administrative officers to D. G. O. 6 months before date of expiry of original term.	5	During the above period of 1½ years, officers will be on probation and will be granted leave only on urgent private affairs or on medical certificate. In cases where sick leave is occasioned by disability due to service, officers will be allowed an extension of their probationary period equal to the period of leave taken. Those, however, who have been granted long leave on medical certificate under these conditions will not be eligible for any further leave under paragraph 226, A. R. I., Vol. II, during the remainder of their first term of service with the department.

3	Selection for continuous service in India on completion of ten years' service in the department.	.....	D. G. O.	C.-in-C.	Through administrative officers to D. G. O. at least 6 months before date of expiry of extended term.	..	Sec para. 320, A. R. I., Vol. II.
<i>Others;</i>							
4	Civilian officers and subordinates; first appointments and promotions.	Engaged on special agreements as to pay and conditions of service by D. G. O. through D. G. Stores.	D. G. O.	...	The D. G. O. arranges for these employés in direct communication with the India Office.	5	Sec I. A. C., clause 135 of 1901.
5	Civilian officers and subordinates; re-engagements.	.....	...	D. G. O.	In writing to officers under whom serving. Proposals for re-engagements should be submitted so as to reach the D. G. O. about 8 months prior to the date of expiry of agreements.	...	Sec I. A. C., clause 135 of 1901.
	Civil Chief Master Armourers	Special agreements as to pay and conditions of service.	D. G. O.	...	The D. G. O. arranges for these employés in direct communication with the India Office.	..	.....
	Civil Chief Master Armourers; re-engagements.	.....	...	D. G. O.	Same as 5	..	.....
	Armourer-serjeants	Appointed under the rules laid down in K. R.	Doing duty in Arsenal, Inspection Section, and the Rifle Factory, Ishapore, rank with Staff-serjeants according to date of promotion to the rank of staff-serjeant.

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List of official books to be

List of official books to be														
No.	Titles.	Office of D. O. F.	Office of D. O. S.	ARSENALS.						DEPÔTS.				
				Allahabad.	Ferozepore.	Kirkee.	Madras.	Quetta.	Rangoon.	Rawal Pindi.	Agra.	Bombay.	Fort William.	Karachi.
INDIAN PUBLICATIONS.														
1	Administration Report of the Ordnance Department in India ...	2	3	1	1	1	1	1	1	1	1	1	1	1
2	Annual Accounts of the Ordnance Factories in India with the Report of the Controller of Military Supply Accounts thereon ...	22	1	...	...	...	...	...	...	...	...	...	...	...
3	Annual Report of the Chief Inspector of Explosives ...	1	1	...	...	...	...	...	...	...	...	...	...	...
4	Annual Statement of proportion of Ordnance Stores in reserve ...	1	5	1	2	1	1	1	1	1	...	...	1	1
5	Arms Act, Indian ...	1	1	1	1	1	1	1	1	1	1	1	1	1
6	A. R. I., Vol. I ...	4	3	2	3	3	2	2	2	3	1	1	1	1
7	A. R. I., Vol. II ...	6	6	20	29	29	20	20	20	29	5	2	5	5
8	A. R. I., Vol. III ...	6	6	4	6	6	4	4	3	6	2	1	2	2
9	A. R. I., Vol. IV ...	2	6	4	8	8	4	4	4	8	1	1	1	1
10	A. R. I., Vol. V ...	1	1	1	1	1	1	1	1	1	1	1	1	1
11	A. R. I., Vol. VI ...	1	1	1	1	1	1	1	1	1	1	1	1	1
12	A. R. I., Vol. VII ...	1	1	1	1	1	1	1	1	1	1	1	1	1
13	A. R. I., Vol. VIII ...	...	1	1	1	1	1	1	1	1	1	1	1	1
14	A. R. I., Vol. IX ...	1	1	2	2	2	2	2	2	2	1	1	1	1
15	A. R. I., Vol. X ...	2	2	1	1	1	1	1	1	1	1	1	1	1
16	A. R. I., Vol. XI ...	1	1	1	1	1	1	1	1	1	1	1	1	1
17	A. R. I., Vol. XII ...	3	2	1	1	1	1	1	1	1	1	1	1	1
18	Army Tables ... (sets)	1	4*	16*	20*	20*	16*	16*	14*	20*	6*	1*	6*	6*
19	„ „ Sections I and II only	...	...	12	13	13	12	12	10	13	...	3	3	3
	Artillery, Royal, Practice Instructions—													
20	Garrison, Coast Defences, Seawards ...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	Garrison, Inland Defences and Movable Armaments ...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	Horse, Field, Mountain and Heavy	...	...	...	...	...	...	...	...	...	...	...	...	...
23	Bengal Municipal Act ...	1	...	...	...	...	...	...	...	...	...	...	...	...
24	Budget Estimates ...	6	...	...	...	...	...	...	...	...	...	...	...	...
25	Cantonment Act, 1910, Cantonment Code, 1912, and Cantonment House Accommodation Act, 1902, Act II of 1902 ...	1	1	1	1	1	1	1	1	1	1	1	...	1
26	Cattle Trespass Act ...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	Civil Account Code (Volume I) ...	2	1	1	1	1	1	1	1	1	1	1	1	1
28	Civil Chief Master Armourers. Instructions for— ...	1	1	3	3	3	3	3	3	3	...	...	1	...
29	Civil Service Regulations ...	6	2	1	1	1	1	1	1	1	1	1	1	1
30	Classification and use of finger prints ...	...	2	1	1	1	1	1	...	1	1	1	...	1
31	Classification hand-book of Army Receipts and Charges... ..	3	2	1	1	1	1	1	1	1	1	1	1	1
32	Code of Criminal Procedure ...	...	...	...	...	...	...	...	...	...	...	...	...	...
33	Composition and Marshalling of Troop Trains ...	...	1	1	1	1	1	1	...	1	1	1	...	1
34	Compendium of office rules for the Army Department of the Government of India ...	...	2	...	...	...	...	...	...	...	...	...	...	...

* This number of complete sets will not necessarily be demanded, the actual

dix III.

maintained in establishments.

No.	Factories.							Inspection.							Office of each Inspector of Ordnance Machinery.	REMARKS.
	Aravankadu.	Cawnpore.	Cossapore.	Dum Dum.	Isapore.	Jubbulpore.	Kirkee.	Balasore.	Cawnpore.	Chemical Inspector.	Dum Dum.	Isapore.	Jubbulpore.	Kirkee.		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...	
2	1	2	4	2	2	2	2	1	1	1	1	1	1	1	...	
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	1	1	1	1	1	1	1	1	...	1	1	1	1	1	...	
5	1	1	1	1	1	1	1	1	...	...	...	1	...	...	...
6	2	1	2	1	2	1	1	1	1	...	1	1	1	1	...	
7	3	3	4	3	3	3	3	1	1	1	1	2	1	1	1	
8	2	2	3	2	2	2	2	1	1	1	1	1	1	1	...	
9	2	2	2	2	2	2	2	1	1	1	1	1	1	1	1	
10	1	1	1	1	1	1	1	...	...	...	...	...	...	...	...
11	1	1	1	1	1	1	1	...	...	...	...	...	...	...	...
12	1	1	1	1	1	1	1	1	1	...	1	1	1	1	...	
13	...	...	...	...	...	...	...	...	1	...	1	1	1	1	...	
14	1	1	1	1	1	1	1	1	1	...	1	1	1	1	...	
15	1	1	2	1	1	1	1	1	1	1	1	1	1	1	...	
16	1	1	1	1	1	1	1	1	1	...	1	1	1	1	...	
17	1	1	1	1	1	1	1	1	1	...	1	1	1	1	...	
18	1	1	2	1	1	1	1	1	1	1	1	2	2	1	1 (b)	(a) Miscellaneous Services only.
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	(b) Army Tables of Artillery units in the Circle and Army Tables, Fort Armaments and Miscellaneous Services.
20	...	...	...	...	...	...	...	...	...	...	1	1	1	1	1 (c)	(c) For nature of Artillery in Circle.
21	...	...	...	...	...	...	...	...	...	...	1	1	1	1	1 (c)	
22	...	...	...	...	...	...	...	...	...	...	1	1	1	1	1 (c)	
23	...	...	1	1	...	...	...	...	...	...	1	1	...	...	...
24	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...	
25	1	1	1	1	1	1	1	1	...	...	...	...	...	...	...
26	1	...	...	1	1	...	...	1	...	...	...	...	...	...	...
27	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...	
28	...	...	...	1	1	...	...	...	...	...	...	12	...	...	...
29	1	1	2	1	1	1	1	1	1	1	1	1	1	1	...	
30	1	1	1	1	1	1	1	...	...	...	...	...	...	...	...
31	1	1	1	1	1	1	1	...	...	...	...	...	...	...	...
32	1	...	...	...	1	1	...	...	...	...	...	...	...	...	...
33	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
34	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

tables required being settled by D. O. S. according to uni-



Appendix III—contd

maintained in establishments—contd.

No.	FACTORIES.							INSPECTION.							REMARKS.
	Aruvankadu.	Cawnpore.	Cossipore.	Dum Dum.	Ishapore.	Jubbulpore.	Kirkee.	Balasore.	Cawnpore.	Chemical Inspector.	Dum Dum.	Ishapore.	Jubbulpore.	Kirkee.		Office of each In- spector of Ordnance Machinery.
35	1	1	1	1	1	1	1	...	...	...	...	...	...	...	...
36	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
37	1	...	...	...	1	1	...	...	...	...	...	...	...	...	...
38	1	1	1	1	1	1	1	...	...	...	...	1	1	...	...
39	1	1	1	1	1	...	1	...	...	...	...	1	1	...	...
40	1	1	1	1	1	1	1	...	...	...	...	...	...	...	...
41	1	1	2	1	1	1	1	1	1	1	1	1	1	1	...
42	1	1	2	1	1	1	1	1	1	1	1	2	1	1	1
43	5	3	4	5	5	5	4	1	2	1	2	2	4	1	1
44	3	1	2	2	1	2	2	1	1	1	1	2	1	1	1
45	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
46	5	6	4	3	6	6	4	2	1	1	2	2	3	1	1
47	1	1	...	1	1	1	1	...	...	1	1	...	...	1	...
48	1	1	2	1	1	1	1	...	1	...	1	1	1	1	...
49	1	...	...	...	1	1	...	...	...	...	...	...	...	...	...
50	...	1	...	1	7	...	1	...	...	...	1	12	...	1	1
51	...	1	2	1	1	1	1	...	...	...	...	...	...	...	...
52	1	1	1	1	1	1	1	...	...	...	...	...	...	...	...
53	5	1	1	4	1	1	4	1	...	2	5	2	2	1	1
54	1	1	1	1	1	1	1	1	1	...	1	1	1	1	...
55	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
56	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...
57	...	...	...	...	...	...	1	...	...	...	1	1	1	...	...
58	...	...	...	1	1	...	1	...	...	...	1	1	...	1	...
59	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...
60	1	1	2	1	1	2	1	1	1	1	1	2	1	1	...
61	1	1	1	1	1	1	1	1	1	...	1	1	1	1	...
62	1	...	1	1	1	1	1	1
63
64	5	2	6	5	5	2	5	1	1	1	2	2	2	1	...
65	1	1	1	1	1	1	1
66	1	1
67
68	2	1	2	2	2	1	1	...	1	1	1	1	2	1	...

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manuals or tables required being settled by D, O, S, according to units dependent,



dix III—contd.

maintained in establishments—contd.

No.	Factories.							Inspection.								Remarks.
	Arvankadu.	Cawnpore.	Cossipore.	Dum Dum.	Ishapore.	Jubbulpore.	Kirkee.	Balasore.	Cawnpore.	Chemical Inspector.	Dum Dum.	Ishapore.	Jubbulpore.	Kirkee.	Office of each Inspector of Ordnance Machinery.	
69	1	1	2	1	2	2	1	1	1	1	2	2	2	1	1	
70	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
71	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
72	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
73	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
74	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
75	1	1	1	1	1	1	1	...	1	...	1	1	1	1	1	
76	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
77	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
78	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
79	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
80	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
81	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1	1	1	1	1	1	1	1	...	...	...	...	...	...	...	...
2	1	1	1	1	1	1	1	...	...	...	...	...	...	...	...
3	1	1	1	1	...	1	1	1	...	1	1	1	1	1	...	
4	...	...	...	1	1	...	1	...	...	1	1	1	...	1	...	
5	...	...	...	1	4	1	1	...	...	...	1	12	...	1	1	
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	...	
10	...	...	...	...	2	...	...	...	...	...	...	1	1	...	1	
11	...	...	...	...	...	...	...	1	...	...	1	1	1	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...
16	...	...	...	...	1	...	...	1	...	...	1	1	1	1	1	
17	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
19	1	1	1	1	1	1	1	1	1	...	1	1	1	1	...	

Appen
List of official books to be

No.	Title.	Office of D. O. P.	Office of D. O. S.	ARSENALS.							DEPÔTS.			
				Allahabad.	Ferozepore.	Kilkee.	Madras.	Quetta.	Rangoon.	Rawal Pindi.	Agra.	Bombay.	Fort William.	Karachi.
WAR OFFICE PUBLICATIONS— <i>contd.</i>														
20	Electrical communications, fixed. Instructions as to—	...	...	...	...	...	...	...	...	...	...	...	...	...
21	Electric Lighting, Military	1	1	1	1	1	1	1	1	1	...	...	...	...
22	Electricity, Notes on—	1	1	1	1	1	1	1	1	1	...	...	...	...
23	Engineering, Field Manual of	1	...	...	...	...	...	...	...	...	...	...	...	...
24	Equipment Regulations (sets)	1	*1	*1	*1	*1	*1	*1	*1	*1	...	...	...	...
25	Equipment, Infantry, Pattern 1908. Webbs—	1	1	1	1	1	1	1	1	1	...	...	1	1
26	Explosives, Service, Treatise on—	1	2	1	1	1	1	1	1	1	1	1	1	1
27	Explosives Act, Guide book	...	...	...	...	...	...	...	...	...	...	...	...	...
28	Extracts from the Proceedings of B. A. Committee	1	...	...	...	...	...	...	...	...	...	...	...	...
29	Field Artillery Training	1	1	1	1	1	1	1	1	1	...	...	1	1
30	Field Service Regulations, Parts I and II	1	1	3	6	7	3	5	3	8	...	...	...	...
31	Field Service Pocket Book	1	1	1	4	3	1	3	1	4	...	...	...	...
32	Field Service Manuals of Units (Expeditionary Force)	1	1	...	...	...	...	...	...	...	...	...	...	...
33	Firing Exercises Garrison Artillery Training—	1	...	...	...	...	...	...	...	...	...	...	...	...
34	Volume I	1	1	1	1	1	1	1	1	1	1	1	1	1
35	Volume II (Siege)	1	1	1	1	1	1	1	1	1	1	1	1	1
36	Volume III	1	1	1	1	1	1	1	1	1	1	1	1	1
37	Hand-book for Military Artificers	1	1	5	8	8	5	5	4	8	1	...	1	1
38	Hand-book of all Machine Guns in the Service in India	1	1	(c)	(c)	(c)	(c)	(c)	(c)	(c)	...	...	...	...
39	Hand-book of all Ordnance in the Service in India	1	1	(c)	(c)	(c)	(c)	(c)	(c)	(c)	...	...	1	1
40	Hand-book of Artillery Instruments	1	1	1	1	1	1	1	1	1	...	...	1	1
41	Infantry Training	1	1	1	1	1	1	1	1	1	...	...	1	1
42	Instructions for use of laying teacher	1	1	1	1	1	1	1	1	1	...	...	...	...
43	King's Regulations	1	2	2	6	4	2	2	2	4	1	1	1	1
44	Lines of Communication, Organization and Supply of an Army in the Field	1	...	...	...	...	...	...	...	...	...	...	...	...
45	List of Changes in War Matériel	3	4	3	3	3	3	2	1	3	1	1	1	1
46	Machine Gun—Tests of Elementary Training	...	...	...	...	...	...	...	...	...	...	...	...	...
47	Magazines, and care of War Matériel. Regulations for—	1	2	...	...	...	...	...	...	...	...	...	...	...
48	Manual of Military Law	1	1	2	3	3	2	2	2	3	1	1	1	1
49	Maxim Gun and Small Arms, stripping, assembling, action, jams, misfires—failures and inspection of	1	1	2	2	2	2	2	2	2	...	...	...	...

dix III—contd.

maintained in establishments—contd.

No.	Factories.						Inspection.							REMARKS.			
	Aruvankadu.	Cawnpore.	Cossipore.	Dum Dum.	Ishapore.	Jubbulpore.	Kirkee.	Balasore.	Cawnpore.	Chemical Inspector.	Dum Dum.	Ishapore.	Jubbulpore.		Kirkee.	Office of each Inspector of Ordnance Machinery.	
20	1	...	1	* Part I only.	
21	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
22	1	1	1	1	1	1	1	1	...	1	1	1	1	1	1		
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	1	...	1	1	1	...	...
25	...	1	...	...	...	...	...	...	1	...	...	...	...	...	...
26	2	1	1	2	1	...	1	1	...	1	1	1	1	1	1		
27	1	...	1	...	...	...	1	...	...	...	...	...	...	...	...
28	...	...	1	...	...	1	...	...	...	...	...	...	...	...	...
29	1	1	1	...	1	1	...	...	...	...	...	1	1	...	1
30	(a)	(a)	(a)		(a) Part II only, Organization and Administration.
31	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...
32	...	...	...	...	...	...	...	...	...	...	1	1	1	...	...
33	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
34	1	...	1	...	1	1	...	...	...	...	...	1	1	...	1
35	1	...	1	...	1	1	...	...	...	...	...	1	1	...	1
36	1	...	1	...	1	1	...	...	...	...	...	1	1	...	1
37	...	1	1	1	1	1	1	1	1	...	...	1	2	...	...
38	1	1	2	1	1	1	1	(b)	(b)	(b)	(b)	...	(d)		(b) M. H. and 303-inch.
39	1	1	1	1	1	1	1	2	...	1	1	2	2	1	(d)		
40	2	1	1	1	...	1		(c) Complete sets will not be demanded, the actual Hand-books required being settled by D. O. S. according to units dependent.
41	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
42	1		(d) For those in Circle.
43	1	1	1	1	1	1	1	1	1	...	1	1	1	1	...		
44	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
45	3	1	4	2	3	3	2	1	3	1	4	4	4	1	1		
46	...	1	...	...	1	...	...	...	...	...	...	1	1	...	...
47	2	1	1	2	1	1	1	1	...	1	1	1	1	1	1		
48	1	1	1	1	1	1	1	1	...	...	...	...	...	...	...
49	...	...	...	...	1	...	...	...	...	...	1	3	...	1	...

dix III—contd.
 maintained in establishments—contd.

No.	Factories.							Inspection.								Remarks.
	Arunkadu.	Cawnpore.	Cossipore.	Dum Dum.	Ishapore.	Jubbulpore.	Kirkee.	Balasore.	Cawnpore.	Chemical Inspector.	Dum Dum.	Ishapore.	Jubbulpore.	Kirkee.	Office of each Inspector of Ordnance Machinery.	
50	...	...	1	...	...	...	...	...	...	1	...	1	1	...	...	...
51	...	1	1	...	...	...	...	...	...	...	...	1	1	...	1	...
52	1	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...
53	...	...	...	...	...	...	...	...	...	...	1	1	1	...	...	...
54	...	...	...	...	...	...	...	...	...	...	1	1	1	...	...	...
55	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
56	...	...	...	1	2	...	1	1	...	...	1	1	...	1	...	...
57	1	...	1	1	1	...	...	1	...	1	...	1	1	...	...	...
58	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
59	1	1	1	1	1	1	1	...	...	...	...	...	...	...	...	...
60	...	...	...	...	...	...	...	...	...	...	...	1	1	...	1	...
61	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...
62	1	1	1	1	1	1	1	1	...	...	...	...	...	...	...	...
63	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...
64	5	6	4	3	6	6	4	1	1	1	2	2	2	1	1	...
65	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
66	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...
67	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
68	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
69	...	...	...	...	...	...	...	...	...	...	...	1	1	...	1	...
70	...	...	...	...	1	...	...	...	...	...	1	...	...	1	...	...
71	1	...	1	1	...	...	...	1	1	1	2	2	1	1	1	...
72	...	...	...	...	1	...	...	...	...	...	1	1	...	1	...	...
73	...	...	...	...	1	...	...	...	...	...	1	2	...	1	...	...
74	1	...	...	1	1	...	1	1	...	1	1	2	1	1	...	...
75	...	...	1	...	1	1	...	...	...	...	...	...	...	...	...	...
76	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
77	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
78	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...
79	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
80	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
81	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...

Appendix
List of official books to be

No.	Titles.	Office of D. O. F.	Office of D. O. S.	ARSENALS.							DEPÔTS.			
				Allahabad	Poorepore.	Kilkee.	Madras.	Quetta.	Rangoon.	Rawal Pindi.	Agra.	Bombay.	Fort William.	Karachi.
WAR OFFICE PUBLICATIONS— <i>concluded</i> .														
Telegraphy and Telephony—Army.														
Instructions in—														
82	Vol. I. Instruments ...	...	1	1	1	1	1	1	1	1	...	...	...	...
83	" II. Lines ...	...	1	1	1	1	1	1	1	1	...	...	...	...
84	Telephones in the field, technical instructions for the use of ...	1	1	1	1	1	1	1	1	1	...	...	...	...
85	Telescopes and binoculars. Notes on, service ...	1	1	1	1	1	1	1	1	1	...	...	...	...
86	Telescopic sights hand-book ...	1	...	...	...	...	...	...	...	...	...	...	...	...
87	Text-book of Gunnery, Parts I and II ...	1	1	1	1	1	1	1	1	1	...	...	1	1
88	Training and Manœuvre Regulations ...	1	1	1	1	1	1	1	1	1	1	1	1	1
89	Training Manual, Signalling ...	1	1	1	1	1	1	1	1	1	...	...	1	1
90	Treatise on Ammunition ...	4	4	7	11	10	7	8	5	11	1	1	3	3
91	Treatise on Military Carriages ...	3	4	7	11	10	7	8	5	11	1	1	3	3
92	Treatise on Ordnance ...	3	4	7	11	10	7	6	5	11	1	1	3	3
War Manuals—														
93	Staff ...	1	...	...	...	...	...	...	...	...	...	...	...	...
94	Ordnance ...	1	1	...	...	...	...	...	...	...	...	...	...	...
95	Railway ...	1	...	...	...	...	...	...	...	...	...	...	...	...
96	Supply ...	1	...	...	...	...	...	...	...	...	...	...	...	...
97	Transport ...	1	...	...	...	...	...	...	...	...	...	...	...	...
98	War Establishments (Expeditionary Force) ...	1	...	...	...	...	...	...	...	...	...	...	...	...
Valise Equipment—														
99	Instructions for fitting—Bando-lie pattern, 1903 ...	1	1	1	1	1	1	1	1	1	...	...	1	1

dix III—concl'd.

maintained in establishments—concl'd.

No.	Factories.							Inspection.							REMARKS.
	Aruvankadu.	Cawnpore.	Cossipore.	Dum Dum.	Ishapore.	Jubbulpore.	Kirkee.	Balasore.	Cawnpore.	Chemical Inspector.	Dum Dum.	Ishapore.	Jubbulpore.	Kirkee.		Office of each In- specter of Ord- nance Machinery.
82	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
83	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
84	...	...	1	...	...	...	...	...	...	...	1	1	...	...	1
85	...	...	...	...	...	...	...	...	...	...	1	1	...	...	1
86	...	...	1	...	...	1	...	...	...	...	1	1	...	...	1
87	1	...	1	1	1	...	...	1	...	...	1	1	1	1	1
88	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
89	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
90	3	1	4	4	1	2	2	1	...	1	4	1	1	1	...
91	1	1	3	1	1	3	1	1	...	...	1	2	...	...	1
92	1	1	5	1	1	2	1	1	...	1	1	2	1	1	1
93	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
94	...	...	...	...	...	...	...	1	1	...	1	1	1	1	1
95	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
96	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
97	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
98	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
99	...	1	...	...	1	...	...	...	1	...	...	...	...	...	...

Appendix IV.

Table of ordinary courses of instruction which military employes may undergo in England.

I. O. D. Course No.	O. C. R. Syllabus No.	Name.	Time allowed.	Notes.	Remarks.
I	2	3			
I	31	Gun Course	2 months		Treatise on Service Old. Written paper.
II	32	Carrage Course	2 months	Variable	Treatise on Military Carrages, N. 100.
III	33	Short Laboratory Course	2 months		Treatise on Gunpowder. One written paper. Regulations for Mess. Room. Regulations for Army Ordnance Services.
IV	34	Workshop Course.	4 months 1 month 3 months 4 1 month 1 1 2 months 1 month		Mechanical Engineering. Includes: Handbook of Military Artillery. Notes on Electricity. Electrical Engineering. Electricity and Magnetism. Brett. This course is reported on at its conclusion.

The above courses which the employes will take place will be a table of some of the courses which the College authorities and recommended to Direct.

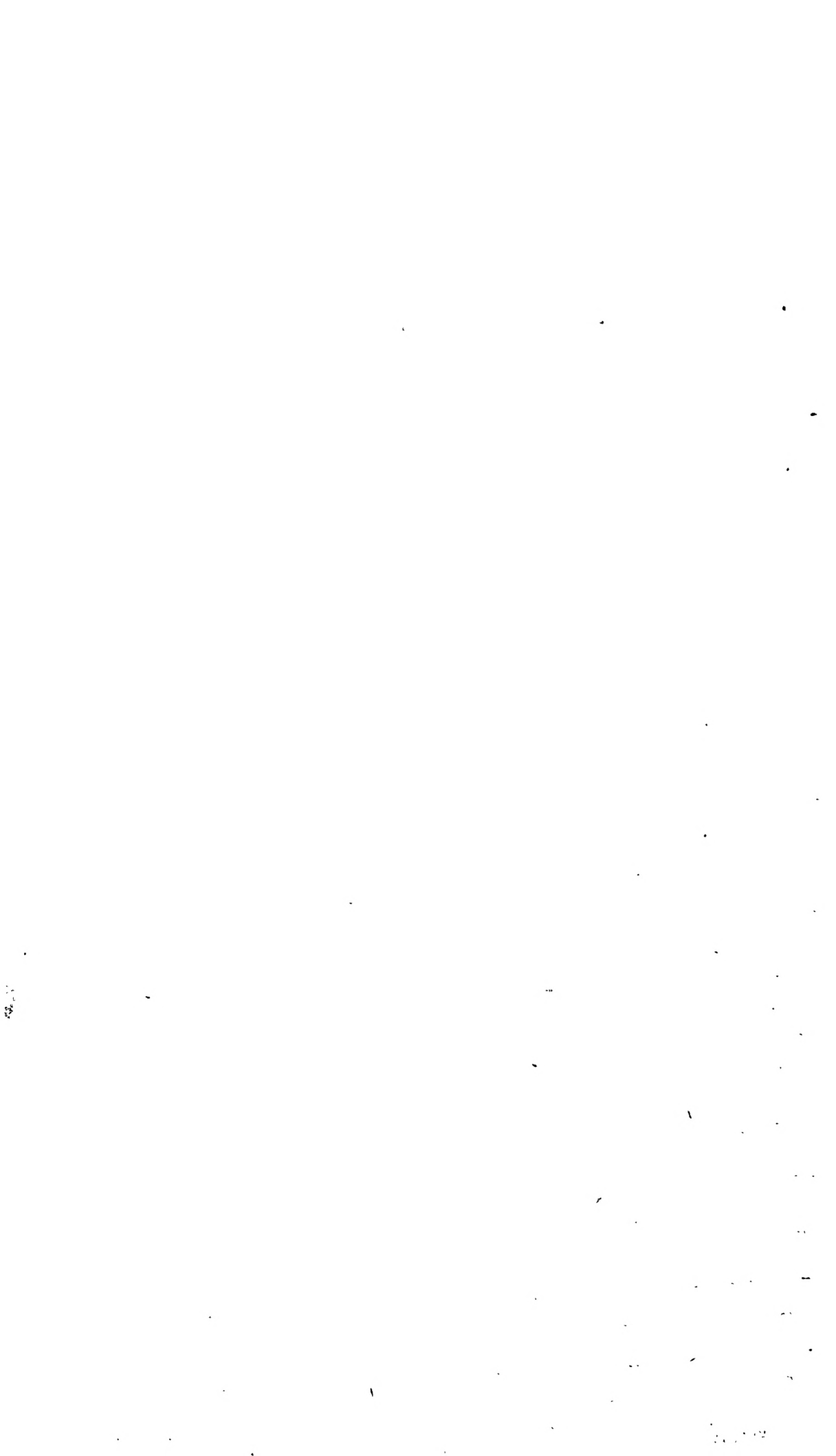
V	85 EXTRA COURSES. (a) Microphotographic examina- tion of metals and woods. Chemistry of stores.	Time depends on circumstances.	Regulations for Army Ord- nance Services.	These courses are reported on when completed.	... military employes of the Indian Ordnance Department are attached for instruction in electri- city to either the Master Gunners' Course, or to the Gunnery Staff (Non- Commissioned Officers) Course, or to the Armament Artificers' Course.
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NOTE.—Warrant and Non-Commissioned Officers of the Indian Ordnance Department are received at the Ordnance College, the course required for each being pointed out by the Indian authorities. For requiring practical manufacturing courses, arrangements are made with the Chief Superintendent, Ordnance Factories, and the Chief Inspector, Woolwich, for facilities to visit and make notes on various operations in the factories. These courses, which are not detailed above, may commence at any time.

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Register of correcting- Appendices to India Army Orders entered.

Year.	Clause and month.	Initials of person by whom corrected, and date of correction.	Year.	Clause and month.	Initials of person by whom corrected, and date of correction.

PREFACE.

THIS volume contains the orders of the Government of India on military-medical and sanitary matters. It is intended principally for the use of officers of the medical service. Such subsidiary instructions, in pursuance of these orders, as may be necessary, will be issued under the orders of the Commander-in-Chief in India.

Officers are expected to interpret these regulations reasonably and intelligently, with a due regard to the interests of the service. No attempt has been made to prescribe for necessary and self-evident exceptions, nor for such matters of detail as should be provided for by local authorities.

The other volumes of regulations with which the medical services are concerned are—

Field Service Regulations, Part I.

Part II.

" " " Part II, Indian Supplement.

Mobilization Regulations, India.

Medical Manual, War (India).

Mobilization Store Tables of medical units.

List of books, forms and stationery for all units in the Field Army.

Field Service Manuals of all units including medical.

Army Regulations, India, Vol. I, "Pay and Allowances."

11 " " " II, "Regulations and Orders for the Army."

" " " " III, "Financial Instructions."

” ” ” ” VII, “Dress.”

" " " " X, "Passages."

" " " " XI, "Clothing."

" " " " XII, "Military Works."

Army Tables, "Establishment and Supplies."

“Medical.”

Act and Indian Army Act.

(This book has been corrected up to 1st August 1913.)

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ARMY REGULATIONS, INDIA.

VOLUME VI.—MEDICAL.

Organization of the Military Medical Service in India.

1. The medical and sanitary duties of the army in India are conducted by officers of the A. M. S., R. A. M. C. and I. M. S., assisted by members of the I. S. M. D., M. N. S., and attendants of the A. H. Corps, A. B. Corps, and hospital establishments. The military medical service.

Army Medical Staff and Royal Army Medical Corps.

2. Surgeon-generals and colonels of the British Service are nominated by the W. O. for administrative duties in India as required to fill vacancies. British service staff.

3. Executive officers of the R. A. M. C. are nominated for service in India by the W. O. and are posted to Divisions by the C.-in-C. who can transfer them to other Divisions when necessary. The duration of service in a Division is three years, except in the Burma Division in which it is two years, extensible to three, and in the Aden Brigade in which it is one year. British service, executive.

They serve in India under the following conditions:—

I. A tour of service is for five years, reckoned from the date of embarkation in England; but this may be extended to seven years by permission or exchange. Any period spent out of India (a) on general or privilege leave, (b) on m. c. leave up to 12 months, exclusive of the time spent on the passage out with troops, (c) on duty at another foreign station between original embarkation and arrival in India, will count towards the completion of a tour.

II. Tour-expired officers go home in the order in which they came out, if practicable; reliefs during a trooping season will be arranged for those officers whose tours expire on or before the 30th June following.

III. Exchanges to alter the order of going home are permitted between officers of equal rank, a lieutenant and a captain, a captain (expecting promotion the next trooping season) and a major, a major and a lieutenant-colonel. Exchanges during a first tour are not permitted. (See I. A. F. Z.-2000.)

4. An officer of the R. A. M. C., tour-expired and detailed for duty with troops on the voyage home, but whose health requires his earlier departure from India, will not be granted leave on medical certificate. The matter will be submitted for the orders of the C.-in-C. unless immediate despatch is essential, in which case the Divl. Comdr. may authorize this and report his action to the D. M. S. Procedure when a tour-expired officer is sick.

Indian Medical Service.

5.

6. The D. G., I. M. S., is the head of the I. M. S. He is responsible that the I. M. S. and the I. S. M. D. are kept up to strength, and that the authorized number of officers and warrant officers is placed at the disposal of the C.-in-C. for military duty. He will nominate I. M. S. officers for the administrative grades, and for this purpose should be informed of vacancies in the military list which may occur unexpectedly. He will keep the records of service and confidential reports of the members of the I. M. S. and I. S. M. D. The D. M. S. will supply him with all necessary particulars for keeping up the records of those in military employment. Position of the D. G., I. M. S.

I. M. S.
officers at
the disposal
of the
C.-in-C.

7. The authorized establishment of the I. M. S. officers for the ordinary requirements of the army will include—

- (a) the number required to fill the sanctioned military appointments as shown in Appx. I; with the prescribed margin for absentees;
- (b) all officers in excess of the sanctioned cadre appointments not required for the civil and military departments of the G. of I.;
- (c) officers on being first gazetted to the Indian establishment.

Removal
from the
service,

7-A. An officer of the I. M. S. will not be permitted to remain in the service if at any time during the first three years from the date of first commission his retention therein is considered undesirable. (See A. R. I., Vol. II.)

Transfer to
and from
civil employ-
ment.

8. Transfers of medical officers to, or from, civil or military employment will be arranged between the G. of I. in the Home or other civil department concerned, and the C.-in-C. Officers of the I. M. S. are ineligible for civil employment unless they fulfil the conditions laid down in Appx. I, and their services can be spared. They may be recalled to military duty at any time, it being understood that the army has the first claim on them.

Rules for
promotion
in the
I. M. S.

9. The following rules regulate the promotion of officers of the I. M. S. :—

A lieutenant shall be eligible for promotion to the rank of captain on completing three years' full pay service, if he has previously passed in subjects b (i) and (ii), d. (ii) and (iii), and h (ii) and (iii) of the examination prescribed in A. R. I., Vol. II, Appendix XXIV,—*vide* para. 904 *ibid.*, and is in all other respects qualified and recommended. An officer who has not passed the prescribed examinations may be provisionally promoted, if in the opinion of the Governor-General of India in Council, he has not had a reasonable opportunity of passing. Such provisional promotion may be cancelled as soon as he has had such opportunity and has not passed.

A captain shall be eligible, if in all respects qualified and recommended, for promotion to the rank of major on completing nine years' full pay service in the rank of captain. This period may be reduced by six months in the case of an officer who produces satisfactory evidence of progress in any branch of knowledge which is likely to increase his efficiency. A captain who may be prevented by exigencies of the service from obtaining an opportunity of qualifying for such accelerated promotion shall have the concession open to him for a period of four years' after his promotion to the rank of major in ordinary course, but any antedate of promotion which may be granted shall be without adjustment of pay.

A major shall be eligible, if in all respects qualified and recommended, for promotion to the rank of lieutenant-colonel on completing eight years' full pay service in the rank of major, including any period covered by antedated promotion without adjustment of pay.

Time on half-pay, not exceeding one year, shall be allowed to reckon as service for promotion, if removal to half-pay has been the consequence of medical unfitness caused by duty, military or civil.

A captain after at least six years' service, a major or a lieutenant-colonel, may be promoted to the next higher rank by brevet for distinguished service in the field or for meritorious or distinguished service of an exceptional nature other than in the field.

A certain number of lieutenant-colonels may be specially selected for increased pay for ability and merit.

Promotion from the rank of lieutenant-colonel with increased pay to that of colonel, and from the rank of colonel to that of surgeon-general, shall be given by selection for ability and merit, and the grounds of such selection shall be stated in writing, and recorded in the Office of the S. of S. for India.

A lieutenant-colonel may also be promoted to the rank of colonel, and a colonel to the rank of surgeon-general, for distinguished service in the field. In any such case the officer shall remain supernumerary in the higher rank until the vacancy to which, in the ordinary course, he would have been promoted, or in the case of an officer promoted to the rank of colonel, until selection for the rank of surgeon-general.

A lieutenant-colonel who entered the service before the 1st April, 1911, and who has been specially selected for increased pay may, if he attains the age of 55 years before he becomes entitled to the pension for 30 years' service, be retained until completion of such service, and in any special case where it would appear to be for the good of the service that an officer should be continued in employment, he may be so continued, subject in each case to the sanction of the S. of S. for India.

A lieutenant-colonel granted an extension of service beyond the age of 55 to complete 30 years' service for pension will not be considered eligible for promotion to the administrative grade.

An officer appointed after the 11th September, 1890, who may retire on pension before completing 30 years' service, shall be liable, till he completes 55 years of age, to be recalled to duty in case of emergency.

Six of the most meritorious officers on the active list shall be named Honorary Physicians, and six Honorary Surgeons to the Sovereign, and they shall relinquish such appointment on retirement. On appointment as Honorary Physicians or Honorary Surgeons an officer under the rank of colonel may be promoted to the brevet rank of colonel.

10. A lieutenant-colonel of the I. M. S., selected for promotion, will be attached to the office of a Bde. or Divl. A. D. M. S. or D. D. M. S., as the case may be, for two months, if he has not done six months' military duty within the preceding three years, provided he is found by a military medical board to be physically fit.

I. M. S. officers qualifying for administrative duties.

Indian Subordinate Medical Department.

11. The I. S. M. D. is recruited and trained in India (see Appx. II) for military and civil duties. Its members are employed under the same system, as far as possible, as the I. M. S., a proportion being in civil employment but liable to recall at any time for Military duty, except those sub-assistant surgeons serving with Imperial Service Troops, Frontier Militia and Levy Corps. Transfers from military to civil employment and *vice versa* will be arranged between the D. M. S. and the D. G., I. M. S. (see Appx. I). The duration of service in a Division or Independent Brigade is five years, except in the Burma Division in which it is three years extensible to five, and in the Aden Brigade in which it is two. The tenure of service of sub-assistant surgeons in the Quetta Division, excepting the Karachi Brigade, is, however, three years extensible to five. The department is divided into—

General.

Transfers to and from civil.

(a) Assistant surgeon branch, for duty with the British army.

Assistant
surgeon
branch.

- (b) Sub-assistant surgeon branch, for duty with the Indian army.
12. The assistant surgeon branch is divided into—

Departmental officers with honorary rank.

Senior assistant surgeons with the honorary rank of major.
Senior assistant surgeons with the honorary rank of captain.
Senior assistant surgeons with the honorary rank of lieutenant.

Warrant officers.

Assistant surgeons, 1st class	}	Ranking with conductors.
" " 2nd "		
" " 3rd "	}	Ranking with sub-conductors.
" " 4th "		

13. The strength of the assistant surgeon branch will include the numbers required for—

- (a) military appointments;
(b) miscellaneous (military) appointments;
(c) miscellaneous (civil) appointments;
(d) provincial and railway appointments;
(e) a reserve of 20 per cent. on (a), and 15 per cent. on (b), (c) and (d).

The civil department may employ as many military assistant surgeons as it has work for. These will be supernumerary to the establishment shown under (a) and (b) and will be seconded; they will not be transferred to military duty unless their services are required by the C.-in-C. In no case are they to be transferred as a punishment.

14. The sub-assistant surgeon branch is divided into—

Native officers.

Senior sub-assistant surgeons, 1st class, with the relative rank of subadar.

Senior sub-assistant surgeons, 2nd class, with the relative rank of jomadar.

Native warrant officers.

Sub assistant surgeons, 1st, 2nd and 3rd classes.

15. The establishment of military sub-assistant surgeons will be maintained to fill—

- (a) military appointments, viz.,—station hospitals (for followers of British corps); Indian troops; cantonment and followers' hospitals; and miscellaneous; with the authorized reserve of 25 per cent.
(b) certain civil appointments—Baluchistan agency; Foreign department; Imperial service troops; Survey Department; Andamans commission; and miscellaneous; with the authorised reserve of 25 per cent.

16. Civil sub-assistant surgeons are distinct from those of the military branch, but are liable, if required, for temporary military duty within their own province only if engaged before the 12th January 1887, otherwise both within and outside their own province. While so employed, they will receive military rank and pay according to their service; but examinations passed while in military employ will not absolve them from passing the tests to which they are ordinarily subject, unless it is certified that the tests were equivalent. Military sub-assistant surgeons attested since 1st August 1894 are liable for temporary civil duty anywhere. Exchanges between military and civil sub-assistant surgeons are not permitted.

Queen Alexandra's Military Nursing Service for India.

17. The M. N. S. is organized for duty with British troops, and is composed of ladies engaged in England or India. They are graded as—

Senior Lady Superintendent.
Lady Superintendents.
Senior Nursing Sisters.
Nursing Sisters.

The cadre
of assistant
surgeons.

Sub-Assist-
ant surgeon
branch.

Cadre of
Sub-assist-
ant
Surgeons.

Civil and
military
sub-assist-
ant
surgeons.

Engage-
ment,
promotion,
re-engage-
ment,

Promotion to the higher grade is by selection and rests with the C.-in-C. (see Appendix I).

Lady nurses are engaged for a term of five years, reckoned from the date of *leaving England*, or of joining appointment in India, according to the place of engagement. With the permission of the Government of India and if pronounced by a Medical Board to be physically fit for further service in India, they may re-engage for a second and third term, and again for a fourth term, or until the age of compulsory retirement, if in all respects efficient and if specially recommended by the C.-in-C. in India (see A. R. I., Vol. I). The engagement is terminable at six months' notice on either side from the date of its receipt by the D. M. S. or the lady nurse concerned. But notice of not less than 30 days, from the date of its submission by the lady nurse concerned, will be accepted on the conditions stated in para. 18, and on the other hand the G. of I. may dispense with the services of a lady nurse at any time, and grant her a gratuity under A. R. I., Vol. I.

The duration of service of a Senior Nursing Sister in a station and of a Nursing Sister in a Division is three years extensible to five, except in the Burma Division in which it is two years, not extensible.

18. A lady nurse who resigns, except on the recommendation of a medical board, will be called upon to refund—

Penalties for
voluntary
resignation.

- (a) £10. if she gives less than six months' notice; and
- (b) £20 on account of passage money if she was provided with a passage to India either on first appointment or on re-engagement, and does not complete her original or extended period of service, unless she did not avail herself of the passage admissible on her last re-engagement; or
- (c) Rs. 100 on account of outfit allowance if she was engaged in India and has not completed two years' service.

These refunds will be paid into a Government treasury on I. A. F. A.-507, and the treasury receipt attached to applications to resign with less than six months' notice.

Army Hospital Corps.

19. The A. H. Corps is organized for duty in hospitals for British troops, and is composed of—

Organiza-
tion.

Ward servants, 1st, 2nd and 3rd grades.

Head cooks, 1st and 2nd grade.

Cooks.

Dhobies

Water carriers

Ward sweepers

} 1st and 2nd
grades.

Assistant cooks.

The corps is divided into companies, one of which will be permanently allotted to each division and one to the Aden Bde. Each company will be subdivided into as many detachments as there are separate medical charges and will be administered by the D. D. M. S. or A. D. M. S. of the division or of the Aden Bde. by whom transfers between companies may be arranged, in communication with each other.

The tenure of service of the A. H. Corps in divisions is five years, except in the case of the Burma Division and Aden Bde.; in the former the men are locally enlisted for continuous service therein as far as the exigencies of the service permit, and in the latter the men are relieved after a tour of two years' service therein by men from either the 5th (Mhow) or the 6th (Poona) Division.

20. Men between 18 and 25 years of age and physically fit for the duties of the corps should be engaged locally whenever possible, but in special circumstances when all the men required cannot be so obtained companies may recruit in any convenient area. The men will be enrolled and their characters verified (I. A. F. K. 1152) by the O. C. the station hospital concerned. Sweepers can only be admitted to the sweeper class. Men who have served before may be re-enrolled, provided that previously borne a good character in the corps, and that

Enrolment
and attes-
tation.

not exceed 35 years; if above that age, the sanction of the Divl. or independent Bde. Comdr. is necessary.

Extension of service. 21. In special cases the Divl. or independent Bde. Comdr. may sanction the retention in the corps of men over 55 years of age.

Procedure in questions affecting the A. H. Corps. 22. Questions relating to the A. H. Corps will be disposed of as follows:—

- | | | |
|--|---|--|
| <ul style="list-style-type: none"> (a) Discipline. (b) Desertions. (c) Leave. (d) Discharges—voluntary, for bad character, and by invaliding. (e) Advances of pay, pension or good-conduct pay. (f) Preparation and disposal of documents for corps purposes, transfers, pensioners, etc. (g) Disposal of property of non-effectives. (h) General conduct, complaints, prison arrangements. (i) Supply and upkeep of clothing and necessaries—as laid down in A. R. I., Vol. XI. (j) All questions not specially provided for—under the orders of the Divl. or independent Bde. Comdr. | } | <p>In accordance with the orders applicable to enrolled persons contained in A. R. I., Vol. II, and I. A. A.</p> <p>Unless otherwise provided for, will be dealt with under the rules for the Indian army.</p> |
|--|---|--|

Corps records.

23. The permanent records of the corps are—

- (a) Long roll.
- (b) Muster roll and pay list.
- (c) Sheet roll.
- (d) Medical history sheet.
- (e) Order book.

Army Bearer Corps.

Organization.

24. The A. B. Corps is organized for ambulance duties connected with the army, and consists of head sirdars, sirdars, senior mates, junior mates, choribardars and bearers.

The corps is divided into 11 companies, one being allotted to each Division and one to the Aden Brigade. Nos. 1 to 9 companies are administered by the D. D. M. S. or A. D. M. S. concerned, assisted by a D. A. D. M. S. (*Mobilization*).

The latter will also assist in medical mobilization arrangements. The Bde. A. D. M. S. will administer the A. B. Corps in the Bde.; and in stations the O. C. Station Hospital and the S. M. O., I. M. S., will command the detachments placed under them.

Enrolment, attestation.

25. Men answering the following requirements will be enrolled by recruiting staff officers, in communication with the D. A. D. M. S. (*Mobilization*) and subsequently attested (I. A. F. K. 1154):—

- (1) Age—between 18 and 25 years.
- (2) Height—5' 4" to 5' 8".
- (3) Minimum chest measurement—(18 to 21 years), 32 inches.
(21 to 25 "), 33 "
- (4) Physical fitness—same as for Indian army, but vision may be less acute.
- (5) *Castes*—

(In the United Provinces) Bathina, Bot, Dhinwar, Dhuria, Gharuk, Goriya, Jaiswar (the Kahar and not the Kori or Rajput), Kamkar, Khawar, Mahar (the Kahar and not the Bombay Maher), Mulla, Raikwar, Rawani, Singhariya, Turai and others of the Hindu Kahar caste from whose hands other Hindus will drink.

(In the Punjab) Jhinwar, Dhiuwar, and Macchi (Hindu).

Endeavours must be made to enlist as far as possible men of the above castes, but recruits may be obtained from among all classes (except sweepers) other than those extensively enlisted for the combatant ranks of the Indian Army. Not less than 50 per cent. will be Hindus, of which 30 per cent. will be Hindus of classes from which all other Hindus will accept water.

Suitable men under 35 years of age may be re-enrolled.

26. Paras. 22 and 23 are applicable to the A. B. Corps.

Corps
matters.
Accom-
modation.

27. Accommodation in cantonments, on the line of march, and in the field, will be provided by the State as for transport followers.

Hospital establishments.

Permanent.

28. Military clerks are allowed to station hospitals under the rules contained in A. R. I., Vols. I and II, or civilian writers when the former are not available. Only such civilian writers as were employed prior to the introduction of the station hospital system retain their appointments when the hospitals to which they are attached are temporarily closed.

Hospital
clerks.

29. European matrons and assistant matrons are sanctioned for station family hospitals (see Appx. I, and A. R. I., Vol. I). Extra matrons for special cases may be employed under the rules for extra temporary establishments. (See A. R. I., Vol. III.)

Matrons for
station
family
hospitals.

30. An establishment of permanent servants is maintained in hospitals for Indian troops and followers, and in certain hospitals for British troops, in accordance with the scales given in Army Tables, Medical and Miscellaneous Services. They are enrolled followers, entertained by the officers in charge of hospitals, with the approval of the Bde. Comdr. Except on field service, when they are available for duty in field and general hospitals for Indian troops, those attached to corps will not be transferred, but they may be detailed for such appropriate duties in their stations as the S. M. O., I. M. S., may consider necessary, provided their services are available in their own corps, when required.

Permanent
servants for
Indian and
certain
British
hospitals.

Attached.

31. Hospital store-keepers are subordinates of the S. and T. Corps allotted to hospitals for British troops for the supply, custody, and maintenance in a complete and serviceable condition of hospital equipment and supplies not in medical charge.

Hospital
store-
keepers.

32. They will issue, or receive back, articles of equipment and supply, arrange for, and supervise, the repair and washing of clothing and bedding, and perform any other duties connected with their position in hospitals that may be assigned to them by medical officers in charge, who will inspect their stores from time to time and bring to the notice of the S. and T. officer any defects they may discover.

Hospital
store-
keepers
in relation
to M. O. in
charge.

33. Temporary hospital servants may, under the rules in A. R. I., Vol. III, be employed for such period as their services are actually required. They will be obtained from and paid by the S. and T. Corps.

Temporary
hospital
servants.

Administration.

34. The D. M. S. is the staff officer of the C-in-C. and his responsible adviser on all sanitary and medical matters. He will issue the orders of the C-in-C. to Divl. or Bde. Comdrs. and decide military-medical questions submitted to Army Hd.-Qrs. that do not require reference to the G. of I. He will be responsible for the preparation of all vital statistics relating to the army in India. Except as provided for in para. 3, he is charged with the distribution and allotment to the several Divns. and Ind. Bdes. of the entire personnel of the military-medical service that is at the disposal of the C-in-C., including members of the M. N. S. He will annually inspect such stations and portions of

Position
and duties
of D. M. S.

38. The senior medical officer of a station is ordinarily the adviser of the O. C. the station on all general medical and sanitary questions affecting the station. Position of S. M. O.

The S. M. O., R. A. M. C., and the S. M. O., I. M. S., are respectively solely responsible for the medical administration and sanitation of the units and their lines under their medical control.

39.

Executive duties.

General.

40. A medical officer will, unless otherwise ordered, be nominated for the medical and sanitary duties, outside hospitals, connected with each unit (see Appx. I). At stations where it is necessary, an orderly medical officer will be similarly detailed for duties connected with British troops, in and out of hospital. Regimental medical officers of the I. M. S. may be detailed by the S. M. O., I. M. S., for any medical and sanitary duties he may consider necessary, provided regimental arrangements (i.e., field firing, parades, etc.) are not interfered with. M. Os. in charge of units, and Orderly M. Os.

41. Medical officers are required to attend without delay to sick calls from any persons entitled to medical attendance, and others in cases of emergency, taking such subsequent action as may be suitable with regard to those not in their official charge. In exceptional cases medicines for persons not in Government service may be prescribed from public stores. M. Os. may not refuse to attend persons not in their charge.

42. Unless required to do so by law in medico-legal matters, medical officers may not assist persons unconnected with the service in official subjects, or in private enterprises, without the sanction of Government. They shall not grant lunacy certificates, except in accordance with the Lunatic Acts in force. Relations to civil authorities and the public.

43. Junior medical officers and subordinates will be instructed by their seniors in their practical preparation for promotion, and in their duties on field service. They will, when necessary, or practicable, be detailed for duty with troops on field days. Instruction of juniors in their duties.

44. All entries of a confidential or responsible character, and those which involve professional knowledge, will be made in the handwriting of medical officers in the original copies of official documents. Records to be completed by M. Os.

45. Medical officers in military and civil employment may be assigned temporary civil and military duties, respectively, as an extra charge, with the concurrence of the local Government and the Divl. Comdr. This sanction will cover changes of medical officers, if required. Temporary extra duties.

46. *Post-mortem* examinations will be made for medico-legal purposes only, or for the elucidation of some important and obscure illness in cases where the relatives do not object. The express permission of the deceased's relatives and O. C. must be obtained in the case of Indians. Autopsies only permitted in special cases.

Duties connected with the sick.

47. Officers in charge of hospitals are responsible that the capabilities of the personnel, and the resources of the hospitals generally, are fully and properly applied to the care and comfort of the sick. Attention is directed to the orders contained in A. R. I., Vol. II, relating to the duties of medical officers. General duties of officers in charge of hospitals.

48. Medical officers and others attached to hospitals for duty are responsible that the different duties assigned to them are discharged with scientific skill and completeness, and that order, comfort, and regularity prevail in the various parts of the hospital at all hours. General duties of those attached to hospitals.

49. Prisoners who cannot be certified as fit for trial or commitment to prison, in accordance with the certificates (modified if necessary) on A. F. B. 116, C. 355 and 388, or I. A. F. D. 913, will be sent to hospital. Attention is directed to the duties of medical officers contained in the rules for military prisons, and the regulations for garrison and regimental provost prisons. Prisoners and prisons.

50.

51. Medical officers are prohibited from recommending a change of station, for duty, for a public servant because the one in which he is serving does not suit his constitution. Change of station on account of ill-health.

Civil
paupers in
military
hospitals.

Private
practice.

52. When destitute Europeans, unconnected with the army, are admitted to a military hospital, statements of issues of diet will be sent to the D. C. M. A. and of medical stores to the C. M. S. A.

53. Executive medical officers and subordinates may attend persons unconnected with government service, provided their duties admit of it.

Duties connected with troops moving.

Medical
arrange-
ments for
troops
moving.

54. When troops move from a station the following rules will be observed—

- (a) all men unable to march will, as a rule, be detained until fit to rejoin their corps;
- (b) such medical arrangements as may be necessary will, in the case of healthy men moving by railway, be made under the orders of the O. C. the station; in all other cases under the orders of the Bde. Comdr. Hospital arrangements for movements are laid down in para. 99. The reserve of field medical equipment for detachments moving is given in Army Tables, Medical;
- (c) during the journey, the sick will be transferred to other hospitals, as may be necessary;
- (d) when proceeding by rail to Bombay or Karachi, a health certificate will be furnished in accordance with the instructions on I. A. F. M. 1241.

Duties
connected
with sick
at ports of
disembark-
ation.

55. On the arrival of British troops in India—

- (a) the medical officer in charge will furnish the documents required by the Regs. A. M. S. and the medical certificates of sick transferred from hospitals at home;
- (b) the sick, if fit to travel, will be sent to the station at which their corps is serving. If unfit to travel, they will be admitted to the station hospital at the port of disembarkation. In the case of corps of the Secunderabad-Burma Divisions, such sick as are not likely to be fit for early duty in the plains will be sent to Wellington.

Duties connected with recruits and reservists.

British
Army.

56. Recruits for the British Army will be examined by officers of the R. A. M. C. in accordance with the orders contained in the Regs. A. M. S.

Indian
Army.

57. The examination of recruits for the Indian Army, of soldiers for the reserve, of enrolled and attested non-combatants (excepting A. H. Corps who will ordinarily be examined by R. A. M. C. officers), and of pensioners, ex-soldiers and reservists of the Indian Army seeking civil employment, on the requisition of the O. C. a unit, a recruiting officer or the Pension Paymaster in Madras, will be conducted by I. M. S. officers in military and civil employment (by the latter only when officers in military employment are not available). Officers of the R. A. M. C., when they hold the medical or additional medical charge of Indian units, will examine recruits for those units, and also recruits for other units when no I. M. S. officer is present in the same station. Recruiting officers are responsible for the measurements, apparent age, intelligence, and promise of development of recruits selected by them, the medical officer being responsible for the physical and mental suitability, and identification marks.

Medical
examination
of Indian
recruits.

58. Instructions for the examination of recruits and non-combatants are given in I. A. F. K. 1160. The particulars of all cases examined will be entered in the recruit register (A. B. 46), and the medical history sheets will be completed as soon as recruits are approved by the O. C. corps.

Examina-
tion of reser-
vists, Indian
army.

59. The medical examination of men for the reserve will be limited to ascertaining their fitness for further duty according to the average of their class and length of service; they will not be rejected on account of minor disabilities.

India Army Regulations.

A. R., I., Volume VI.

The following should be substituted for paragraphs 67, 67-A, 67-C, 67-D, 67-E, 67-F, and 67-G.

67. Gratuitous medical attendance includes :—

- (a) the professional advice and care during sickness or injury afforded by the appointed medical attendant who may call in for consultation (which shall be free of all charge) any medical officer paid by Government who may happen to be in the same station at the time ;
- (b) the free supply of such authorised medicines and appliances as may be considered necessary and are available from :—
 - (i) a military hospital or dispensary, if ordered by an authorised medical attendant in military employ or his *locum tenens* ;
 - (ii) a State-aided civil dispensary, if ordered by an authorised medical attendant in civil employ or his *locum tenens* ;
- (c) the free supply of such medical comforts as are considered necessary by the medical attendant ;
- (d) ordinary nursing provided in a military hospital by the hospital staff, or special nursing provided in or out of hospital by the engagement of a private nurse or nurses.

July Appr.

I. A. O.—1918.

A. D. No. 11401-

1 (A. D.), dated
18-8-1917.

Note I.—For the purposes of medical attendance as defined above, the term "military employ" in paragraph 67 A-I and II is held to include employment in a *bonded* military office (e.g., Army Department, Army Headquarters, Army Divisional, Brigade or Station Staff Offices, etc.).

Note II.—Persons who are authorised to receive gratuitous medical attendance are entitled to it whether at their own or at another station, and whether on duty or on leave, by any medical officer paid by Government who may be stationed at the place.

Note III.—The appointed medical attendant will at all times, if desired, afford medical aid in cases of child birth to the wives of persons whose families are not entitled to admission into a military hospital, but are entitled to medical attendance.

Note IV.—If a person authorised to receive gratuitous medical attendance calls in any medical officer except the one provided by Government, the usual fees may be claimed by the medical officer so called in.

Duties of the I. S. M. D.

60. The members of the I. S. M. D. will perform any duties for which their position and training fit them. Sub-assistant surgeons attached to Indian troops may be detailed by the S. M. O., I. M. S., for any medical and sanitary duties he may consider necessary, provided regimental arrangements (*i.e.*, field firing, parades, etc.) are not interfered with. At least one assistant surgeon or sub-assistant surgeon should be available for duty, day and night, in each hospital for British or Indian troops. They are not to treat cases of sickness amongst officers, warrant and N. C. Os. and men in barracks and quarters. In the absence of the medical officer, the assistant surgeon or sub-assistant surgeon in subordinate charge will be responsible for the hospital being conducted in accordance with orders.

General duties.

61. They will not be placed in medical charge of rest-camps. When attached to these, they will meet all trains conveying troops, and in the absence of a medical officer, detain any individuals unfit to continue the journey.

Posting to rest-camps.

Duties of the M. N. S.

62. Lady nurses will perform such duties in hospitals for British troops as their position and training fit them for. They may be sent by the Bde. Comdr. to any out-station where their services may be required, provided no extra expense to the State is incurred on account of accommodation, but, except to nurse a sick officer, they will not be detailed for duty singly. They are not available for nursing members of officers' families. Their duties will be performed under the supervision of the lady superintendent who, for this purpose, will visit each hospital in the Circle once a year. In the absence of the lady superintendent, the senior nursing sister in a station will supervise the nursing duties. The prescribed uniform is laid down in A. R. I., Vol. VII.

General duties.

63. They are not permitted to accept presents of any kind in connection with their duties, and while on duty they will restrict their communication with patients to matters connected with their duties.

Acceptation of presents forbidden.

64. If a lady nurse is suspended from duty by the officer in charge of the hospital for neglect of duty, or misconduct, the case should be reported to the Bde. Comdr. who will, if necessary, order the assembly of a court of enquiry (composed of two senior combatant officers) to investigate the matter. If the Bde. Comdr. cannot dispose of the case himself, he will refer it for the orders of higher authority.

Procedure in cases of neglect of duty or misconduct.

Duties of the A. H. and A. B. Corps.

65. The men of the A. H. Corps will be employed, according to their respective classes, so as to ensure a sufficient number being available by day and night for attendance on the sick.

General duties. A. H. Corps.

66. In addition to being trained in corps duties, bearers should be employed on any government work suitable to their caste such as water-carrying, work in S. and T. godowns, etc.

Duties of the A. B. Corps in peace.

Medical Attendance.

Persons entitled to Gratuitous Medical Attendance.

67. Note.—For the purposes of this rule the term "military employ" is held to include employment in a *bona fide* military office (*e.g.*, Army Head-quarters, Army Department, Army, Divisional, Brigade or Station Staff Offices, etc.)

Medical attendance, gratuitous.

At their quarters or in a military hospital.

- (a) Military Officers on the active list in military employ.
- (b) R. I. M. officers on the active list in the Marine Department.
- (c) Members of the M. N. S.
- (d) Warrant officers, including those of the R. I. M.
- (e) Army school masters and school mistresses.
- (f) Non-commissioned officers and men in other than purely regimental employ.
- (g) European pensioners (pensioned direct from the military service of the G. of I.), including retired departmental officers with honorary rank and warrant officers, even when in

India Army Regulations—continued.

67-A. The following classes are entitled to gratuitous medical attendance to the extent noted :—

Classes.	Extent to which entitled to gratuitous medical attendance as defined above.
<p><i>I.—At their quarters or in a military hospital into which they are entitled to be admitted if accommodation is available and the medical attendant recommends this course.</i></p> <p>(i) Military officers (including departmental officers with honorary rank) on the active list in military employ and Royal Indian Marine officers on the active list in the Marine Department.</p>	<p>Items (a), (b), (c) and (d), but item (c) in a military hospital only, and item (d) when treated in quarters, if suffering from a disability considered to have been contracted on duty.</p> <p>Military staff officers at Presidency towns are not entitled to (b).</p>
<p>(ii) Assistant Surgeons in military employ; warrant and non-commissioned officers of the Supply and Transport Corps, Ordnance and Barrack Departments (other than those employed as clerks); warrant officers serving with Corps of Sappers and Miners; all non-departmental unattached list ranks employed on garrison, or shipping, duties as clerks not on consolidated rates of pay, with convalescent depôts, instructional schools, prisons, detention barracks, veterinary hospitals, volunteers, and as bandmen; and their families.</p>	<p>Items (a), (b), (c), and (d).</p>

Note I.—A military officer (including a departmental officer with honorary rank employed elsewhere than at Simla) or Royal Indian Marine officer admitted into a civil hospital, on account of a disability considered to have been contracted on duty, is entitled to the services of a nurse if the senior medical officer or medical attendant considers her employment necessary.

Note II.—For the rules regarding the treatment in civil hospitals of officers (including departmental officers with honorary rank employed elsewhere than at Simla) suffering from infectious maladies, see paragraph 83.

Note III.—For attendance on officers by specialists, see Army Regulations, India, Volume X.

Note IV.—If serving at a station where there is no military hospital, the classes specified in (ii) will, if the medical attendant considers admission to hospital necessary, be transferred to the nearest military hospital for treatment. If, however, the medical attendant considers such a course impracticable, he may cause the patient to be admitted to a civil hospital or to be treated in quarters, engaging such special nurse or nurses as may be considered necessary. The charge for nurses in the case of private nursing will be limited to Rs. 5 per diem in ordinary cases and Rs. 8 in cases of infectious disease, in addition to actual travelling expenses incurred. Whether the patient is treated in a military or civil hospital, or has special nursing provided in quarters, the authorised hospital stoppages will be recovered and credited to Government. (See A. R. I. Volume I.)

Medical attendance.

but not in receipt of a pension or gratuity from the Department.

At their quarters only.

- (h) Military officers on the active list in civil employment.
- (i) Cantonment magistrates and chaplains.
- (j) Civilian gazetted officers of the Ordnance, Military Accounts and Military Farms Departments, and non-gazetted officers and subordinates, (other than clerks) of the Ordnance Department.
- (k) Civilian staff of A. H. Q. and that of Army, Divisional, Brigade or Station Staff Offices, and civilian clerks of the Military Works Services, when not stationed in a Presidency town.
- (l) Miscellaneous establishment attached to the different Departments (S. and T., Ordnance, Military Works, Medical, etc. of the Army, *excluding* civilian clerks of these departments. In the case of M. W. S. however, civilian clerks are entitled to gratuitous medical attendance when not stationed in Presidency town.

*In a Military Hospital only.**

- (m) N. C. Os. and men in actual regimental employment.
- (n) All inferior servants and public-followers.

Families.

At their quarters or in a Military Hospital.

- 67-A. (a) Military officers on the active list in military employ.
- (b) R. I. M. officers on the active list in the R. I. M. Department.
 - (c) Warrant officers in military employ (including those of the R. I. M.).
 - (d) N. C. Os. and men in military employ other than purely regimental.
 - (e) Army school masters and mistresses.

At their quarters only.

- (f) Cantonment magistrates and chaplains.
- (g) Civilian staff of A. H. Q. and those of Army, Divisional, Brigade or Station Staff Offices.
- (h) European pensioners (pensioned direct from the military service of the G. of I.), including retired departmental officers with honorary rank and warrant officers, if not employed by, or in receipt of, a pension or gratuity from the Civil Department.
- (i) Non-gazetted officers and subordinates (other than clerks) of the Ordnance Department.

*In a Military Hospital only.**

- (j) N. C. Os. and men in purely regimental employ.

Note (1).—CONFINEMENT CASES.

In cases of child-birth, if assistance is desired, the appointed medical attendant will at all times give medical aid to the wives of persons whose families are not entitled to admittance into a military hospital, but are entitled to medical attendance.

Note (2).—FAMILIES OF CIVILIAN GAZETTED OFFICERS IN MILITARY EMPLOY.

Only those civilian gazetted officers in military employ are entitled to gratuitous medical attendance for their families whose agreement or covenant with the S. of S. specifically provides for this concession; and those serving in the Ordnance Department who, though no longer under their original agreements with the S. of S. (which gave them this privilege) are so entitled under special sanction. All those actually employed at A. H. Q. are entitled to the concession.

* Subject in the first instance, in case of emergency, before being removed to Hospital, to the visit of the appointed medical attendant.

India Army Regulations.

II.—At their quarters or in a military hospital to which they may be admitted if accommodation is available and the medical attendant recommends this course.

Classes.	Extent to which entitled to gratuitous medical attendance as defined above.
(i) Families of military officers (including departmental officers with honorary rank employed elsewhere than at Simla) on the active list in military employ, and Royal Indian Marine officers on the active list in the Marine Department.	Items, (a), (b), (c) and (d), but item (c) in a military hospital only, and in the case of item (d), ordinary nursing only in a military hospital. The cost of any special nursing provided for an officer's family in a military hospital is recoverable from the officer in addition to the authorised hospital stoppages.
(ii) Military Nursing Service	Families of military staff officers at Presidency towns are not entitled to (b).
(iii) Warrant officers in military employ including those employed in the Public Works and Telegraph Departments and in the Royal Indian Marine, but excluding those referred to in I (ii).	Items (a), (b), (c) and (d), but items (c) and (d) in a military hospital only.
(iv) Non-commissioned officers and men in other than purely regimental employ, including those employed in the Public Works and Telegraph Departments, but excluding those referred to in I (ii).	Items (a), (b), (c) and (d), but item (c) in a military hospital only.
(v) Families of the classes specified in (iii) and (iv) above.	Items (a), (b), (c) and (d), but item (c) in a military hospital only and in the case of item (d) ordinary nursing in a military hospital only.
(vi) Army schoolmasters and schoolmistresses and their families.	Items (a), (b), (c) and (d), but item (c) and (d) in a military hospital only.

India Army Regulations—continued.

Extent to which entitled to gratuitous medical attendance as defined above.	Classes.
Items (a) and (b).	<p><i>Not in their quarters only—contd.</i></p> <p>(iv) Commandant magistrates and chaplains and their families.</p> <p>(v) Civilian gazetted officers of the Ordnance, Military Accounts and Military Farms Departments, and non-gazetted officers and subordinates (other than clerks) of the Ordnance Department; also civilian dairy managers in the Military Farms Department.</p>
Items (a) and (b).	(vi) Civilian staff of Army Headquarters and that of Army, Divisional, Brigade or Station Staff officers, and their families, and civilian clerks of the Military Works Services, when not stationed in a Presidency town.
Items (a) and (b).	(v) Miscellaneous establishments attached to the different departments (Supply and Transport, Ordnance, Military Works, Medical, etc.) of the Army <i>excluding</i> civilian clerks of these departments. In the case of the Military Works Services, however, civilian clerks are entitled to gratuitous medical attendance when not stationed in a Presidency town.
Items (a) and (b).	(vi) Families of European pensioners (pensioned direct from the military service of the Government of India) including retired departmental officers with honorary rank and warrant officers, if not employed by or in receipt of a pension or gratuity from the civil department.
Items (a) and (b).	(vii) Families of non-gazetted officers and subordinate clerks (other than clerks) of the Ordnance Department.

NOTE 1.—Only the civilian gazetted officers in military employ are entitled to gratuitous medical attendance for their families whose names are entered with the Secretary of State specially for this concession; and those serving in the Ordnance Department who, though not entered under their original engagements with the Secretary of State (which gave them this privilege), are so entitled under special orders. All those actually employed at Army Headquarters are entitled to this concession.

67-B. Authorised Medical Attendants for Entitled Persons.

Medical attendant.*	Entitled persons.
(a) Medical officers of the station hospital for British Troops.	All ranks, British Troops, in regimental employment (including school masters and school mistresses.)
(b) Medical officer in charge Indian corps. ...	All ranks, Indian Troops, in regimental employ.
(c) Sub-assistant surgeon attached to Indian corps.	Families of Indian troops.
(d) Surgeon to His Excellency the C.-in-C. (or during his absence from Simla, Civil Surgeon, Simla, East) or one of his assistants.	(i) Officers actually employed at Army Head-quarters.
(e) Medical attendant appointed from the staff of the hospital in which they are entitled to be treated (see paragraph 103).	(ii) Other staff of Army Head-quarters.
(f) (1) Medical officer of Volunteers, if there is one in the station. (2) Otherwise, staff or civil surgeon, according to "conditions" noted against each of these officers. (See "g" and "h".)	Public followers.
(g) Staff Surgeon (or medical officer locally appointed to perform the duties of Staff Surgeon):—	Military Staff of Volunteers.
CONDITIONS.	
1.—When the entitled persons are residing in cantonments, or	All other persons entitled to gratuitous medical attendance and not already specified in items (a) to (f) of this sub-para.
2.—When residing just outside cantonments and no Civil Surgeon is available.	
3.—When persons entitled to gratuitous medical attendance under civil rules reside in cantonments where there is either no civil surgeon, or where the civil surgeon does not reside for his own convenience.	
4.—At hill stations:—When there is no civil surgeon, or if there is one, when he is unable to perform the duty on account of illness and in emergencies. Those actually employed on military duty connected with the presence immediately under the charge of the Staff Surgeon. See "N. B." below.	
(h) Civil surgeon (or assistant where one is stationed):—	All other persons entitled to gratuitous medical attendance and not already specified in items (a) to (g) of this sub-para.
CONDITIONS.	
1.—When the entitled persons are residing in civil lines or outside cantonments.	At hill stations.—All entitled persons not doing duty with troops—see item "g" condition 4; also "N. B." below page 14.
2.—When persons "entitled to gratuitous medical attendance under civil rules" are living and not immediately under the charge of a medical officer residing for his own convenience.	

* For the purpose of this Table, "entitled persons" are those who are entitled to the medical services of the station hospital, or of the civil surgeon, or of the staff surgeon, or of the medical officer locally appointed to perform the duties of Staff Surgeon, or of the medical officer of Volunteers, or of the medical officer of the Military Staff of Volunteers, or of the medical officer of the Public Followers, or of the medical officer of the Families of Indian troops, or of the medical officer of the Indian corps, or of the medical officer of the British Troops, or of the medical officer of the Civil Surgeon, Simla, East, or of the medical officer of the Surgeon to His Excellency the C.-in-C. (or during his absence from Simla, Civil Surgeon, Simla, East) or one of his assistants.

Authorised Medical Attendants for Entitled Persons.

Medical attendant.*	Entitled persons.
(i) Presidency Surgeon :— CONDITION. <i>When the entitled persons are residing within the limits of his charge.</i>	

N.B.—In hill stations where the cantonment is entirely separate and distinct from the civil station the usual rules as for plains stations will apply.

NOTE.—Where an assistant (or assistants) is sanctioned to assist the authorised medical attendant, the duties of all will be distributed as follows :—

Civilian clerks and others whose salary is Rs. 250 per mensem and over are entitled to the services of the authorised Commissioned Medical Officer.

Civilian clerks and others whose salary is below Rs. 250 but not less than Rs. 50 per mensem are entitled to the services of the authorised Assistant Surgeon.

Civilian clerks and others whose salary is less than Rs. 50 are entitled to the services of the authorised Sub-Assistant Surgeon.

Fees for unauthorised medical attendant.

67-C. If an individual calls in any medical officer except the one provided by Government, the usual fees may be claimed by the medical officer so called in.

Free medical attendance at own or another station.

67-D. Persons who are authorised to receive gratuitous medical attendance are entitled to it whether at their own or at another station, and whether on duty or on leave, by any medical officer paid by Government who may be stationed at the place.

Consultation.

67-E. The appointed medical attendant may call in consultation (which shall be free of all charge) any medical officer paid by Government who may happen to be in the same station at the time.

Hospital accommodation.

Officers and men.

67-F. a.—The following are entitled to admission into army hospitals :—

(i) N.-C. Os. and men in purely regimental employment.

b.—The following may be admitted into army hospitals if accommodation is available and the medical attendant recommends this course :—

(ii) Military Officers on the active list in military employ.

(iii) Officers and warrant officers of the R. I. M. if Director, R. I. M., considers it desirable.

(iv) Members of the M. N. S.

(v) Army school masters and school mistresses.

(vi) Warrant officers ; also non-commissioned officers in other than purely regimental employ.

(vii) Entitled pensioners.

(viii) Europeans unconnected with the army when approved by O. C. Station.

NOTE.—The rule for the treatment in a Civil Hospital of Military Officers suffering from certain infectious diseases, is laid down in para. 83.

Families.

c.—The families of the following are entitled to admission into Army Hospitals :—

(ix) Non-commissioned officers and men in purely regimental employ.

d.—The following may be admitted into army hospitals if accommodation is available and the medical attendant recommends this course :—

(x) Military Officers on the active list in military employment.

- (xi) R. I. M. officers on the active list in the Marine Department.
- (xii) Warrant officers in military employ; also non-commissioned officers in military employment *other than* purely regimental.
- (xiii) Army school masters and school mistresses.

Medicines.

67-G. All officials (except military staff officers at the Presidency towns) and their families entitled to gratuitous medical attendance under these rules are also entitled to the free supply of such authorised medicines and appliances as may be available from public stores, as shown below :—

- (a) From a military hospital or dispensary, if ordered by an authorised medical attendant in military employment, or his *locum tenens*.
- (b) From a State-aided civil dispensary, if ordered by an authorised medical attendant in civil employment or his *locum tenens*.

Sanitation and prevention of disease.

68. So far as the authorized arrangements of the service admit of it, the most approved modern principles of sanitation, and for the prevention of disease, will be constantly applied in connection with the troops. The special attention of medical officers will be directed to supervising the arrangements connected with accommodation, air space and ventilation, the source and quality of supplies, kitchen methods, conservancy arrangements, drainage, dust, general cleanliness, the banishment of flies and mosquitoes, the personal hygiene of the troops and followers (particularly those dealing with food, milk, water, and washing), the selection of camping-grounds, camp hygiene, the detection of disease and its cause, and disinfection.

Officers' messes of both British and Indian corps will be periodically inspected, special attention being paid to their kitchens and surroundings.

69. D. A. Ds. M. S. (Sanitary) are appointed to Divl. Hd. Qrs. for the purpose of investigating and advising on the cause and prevention of disease, and sanitary questions in general. Assistant surgeons are appointed as assistants to the D. A. Ds. M. S. (Sanitary) in each Divn. to carry on the routine work during their absence on inspection tour, as a collateral charge.

70. Laboratories are established at head-quarters stations of Divisions and Brigades for conducting chemical and bacteriological examination, also in the enteric fever convalescent depôts at Naini Tal and Wellington.

71. The duties of the S. M. O. in connection with the general sanitation of cantonments are laid down in the Cantonment Code. He will make a personal visit to every part of the Cantonment at least once a month and shall report any insanitary defects he may notice both to the officer responsible under Section 69, Cantonment Code, 1899, and to the cantonment authority, as laid down in Cantonment Code, Section 71, and will visit all lines occupied by troops at least once a fortnight. He will be assisted in these duties (so far as their respective charges are concerned) by the medical officers in charge of units and hospitals, who will make such inspections as may be ordered and bring to his notice any matter relating to the health of the troops of the station, which may require the orders of the O. C. the station (see para. 38) or the cantonment authority (see Cantonment Code). The general state of sanitation and defects awaiting removal will be noted in periodical health returns.

The Medical Officer in charge of a unit will visit the lines and barracks of which he is in charge daily; these visits may be so arranged that he must make a complete and detailed inspection of every barrack-room, every latrine, every cook-house and all subsidiary buildings at least once a week. He will keep a sanitary diary in which will be noted the results of his daily visits. This diary will be passed once a week or oftener if the matter is urgent to the Commanding Officer concerned, who, after recording in it the action taken, will return it to the Medical

Officer (see King's Regulations, paragraph 993). The diaries should be so prepared that in one column there is a statement of the conditions found, and if any defects calling for remedy, in a parallel column will be entered the notes or remarks of the Commanding Officer concerned, and in a third parallel column will be noted the action taken. It is the duty of the S. M. O. of the R. A. M. C. and I. M. S. to inspect these diaries of their respective services once a week and to take such action as may be necessary.

Insanitary surroundings of cantonments.

72. The S. M. O. of the station will keep himself acquainted with the sanitary condition of camping grounds and country in the neighbourhood of cantonments, and the health of the inhabitants, with a view to the detection of any condition which may threaten the health of the troops.

Inspection of water-supply by the S. M. O.

73. He will maintain a strict inspection of the water-supply from its source to the point of distribution with a view to the detection of possible pollution or deficiency. Samples of drinking water from each station will, under the orders of the Bde. Comdr., be analysed before and after the monsoon each year, and any unsatisfactory condition noticed will be reported.

Tinning of cooking utensils.

74. The tinning of cooking utensils will be tested occasionally for the presence of lead.

Health inspections of troops and families.

75. British N. C. Os. and men will be medically inspected on their arrival at, and departure from, a station, and whenever necessary. Married men will, as a rule, be excused special health inspection (see K. R. and A. R. I., Vol. X, regarding health inspections prior to embarkation).

Whenever special examinations of soldiers become necessary each individual soldier should be examined by the medical officer in private and, if the presence of a third person is necessary, he should be an Assistant Surgeon of the I. S. M. D.

Vaccination and re-vaccination.

76. Medical officers will, yearly in October and whenever small-pox is prevalent in the station or its neighbourhood, take steps to vaccinate or re-vaccinate British soldiers and Native combatants and non-combatants in their charge, who have consented to such operation on attestation or enrolment. Medical officers will vaccinate or re-vaccinate all other persons in their charge who consent to such operation (adult females of the families of Indian troops may be excepted).

Recruits should, with their own consent, be vaccinated on joining. It is desirable that children should be re-vaccinated after ten years.

Native combatants and non-combatants will not be permitted to have their families living in the lines, unless they consent to have them vaccinated or re-vaccinated (adult females may be excepted).

These orders do not apply to persons who show satisfactory marks or produce evidence of successful vaccination or re-vaccination, or to persons who bear marks of small-pox.

Vaccine lymph is procurable by book transfer from the most conveniently situated Local Government Vaccine Lymph Depot.

Conservancy.

"Wet" system of conservancy.

77. The authorized systems of conservancy are:—

I—For British troops—

A pail system with the use of a disinfectant solution in the latrine pans and for cleaning them and removal by carts or receptacles carried by hand.

II—For Indian troops and all followers—

A pail system with removal by carts or receptacles carried by hand. Urinaries as well as latrines will be provided.

Final disposal of excreta.

78. Sewage will be disposed of in the following ways:—

I—By a sewage system where this is provided.

II—By incineration, at stations where incinerators have been established.

III—Biological treatment and disposal of the effluent on land or otherwise, at stations where installations for the purpose are sanctioned.





those concerned and carried out. In making recommendations the S. M. O. must bear in mind that the essential element of danger, in all infectious diseases, is the human being and his personal clothing or bedding; also that the risks of danger from walls, floors and ceilings are relatively remote.

I. (by the O. C. unit). If recommended by the S. M. O. the room and subsidiary buildings occupied or used by the sick should be at once vacated, freely ventilated, and no person allowed to enter them, except for the purpose of purification.

II. (by the medical authorities). Infected buildings and their contents, kitchens, lavatories, latrines, ground, wells, conveyances, etc., will, so far as practicable, be disinfected, and such further measures of the same kind as become necessary during the course of the disease will be promptly carried out. Infected tents will be fumigated, disinfected and exposed to the air for ten days before return to store. (See A. R. I., Vol. II.)

The scale of authorized disinfectants is given in Army Tables, Medical.

III. (by M. W. S. or P. W. D.). If recommended by the S. M. O., the walls, ceilings, and all limewashed parts of a public building which have been occupied by a case of infectious disease will be thoroughly scraped and limewashed. The floor, woodwork and furniture should be well washed with country soap and hot water. The doors and windows should be left open for ten days.

Cholera.

Special
rules for
cholera.

84. I. When cholera exists in the neighbourhood of troops, steps will be taken by the S. M. O. concerned to obtain immediate information of cases occurring among the community for whose health he is responsible. Special precautions will be taken to protect all water and milk supplies, and when there is any possibility of their contamination they will be boiled before use. All food supplies from infected places should be stopped, and communication with such places restricted as far as possible.

II. When cholera exists among the civil population of a cantonment, arrangements will be made by the cantonment committee for immediate isolation and disinfection in all cases.

III. When a case of cholera occurs among troops, their families or followers, the measures detailed in para. 83 will be carried out; particular attention being paid to the thorough disinfection of the latrine used by the patient and of all vessels used by the patient and those who have taken meals with him, for holding or storing water and food. Persons other than those attacked, who are removed from a room or tent under sub-para. I of para. 83, will be kept apart from all others who have not been living in the same room or tent as the patient.

IV. The excreta and vomited matter from cholera patients will be received into vessels containing an efficient disinfection in sufficient quantity, and will be afterwards boiled or burned.

V. The removal of troops among whom cholera is occurring into sanitary camps is only necessary when the source of infection exists in or near their lines; to remove a unit on account of a few cases contracted elsewhere would serve no useful purpose. Such moves will take place when considered necessary by the Bde. Comdr. (or G. O. C. in the case of troops under their immediate command) on the advice of the D. D. M. S. or A. D. M. S. or S. M. O. concerned. It must be remembered that no benefit is likely to result from the move if any article which can carry infection is taken with the troops. All utensils used for holding water or food and latrine furniture must, therefore, either be efficiently disinfected before being taken into camp, or else be left behind to be disinfected. Similarly all clothing, bedding and bed-cots which can in any way have become infected must be left behind to be disinfected or burned. Charpoys or straw are allowed for sanitary camps.

VI. Movements by rail will only be made under the orders of the G. O. C. division. When these are made, special latrine accommodation will be provided at intervals along the line. The trains should not stop at the stations.

VII. European attendants on cholera cases should, as far as possible, be volunteers.

VIII. When, during a cholera epidemic of unusual severity, the services of hospital attendants call for special recognition, a special report will be submitted by the medical officer in charge for transmission to the G.-in-C. and G. of I.

IX. The O. C. station or troops will keep up communication with—

(a) The civil authorities regarding the progress of the epidemic, movements of troops and the extent to which co-operation or assistance is necessary.

(b) The railway authorities with reference to probable movements by rail.

(c) The officer in charge of the nearest arsenal or ordnance dépôt, with reference to possible demands for tents. If the

Page 19, para. 84—

After item X, insert the following new item :—

“XI. In a Cholera epidemic, Rogers' hypertonic saline solution, and permanganate of calcium treatment should be generally adopted, and carried out as he directs.”

84-A. When plague exists in the immediate neighbourhood of troops the S. M. O. concerned must take prompt steps to obtain all information of cases occurring, not only among the community for whose health he is responsible, but among those of the people living outside his sphere of activity. All communication between infected and non-infected places should be stopped or restricted as far as possible and consistent with the Cantonment Code. In circumstances where communication cannot be completely restricted, arrangements should be made for the sanitary inspection of persons passing from the infected areas into military lines and cantonments.

Special rule
for plague.

The prevalence of plague either within a military cantonment or in the villages and towns in its vicinity calls for careful and thorough extermination of rats, mice and other rodents. In conjunction with the Military Works officers and with the Cantonment Magistrate, every endeavour should be made to destroy rats and mice, and the structural fittings of all buildings be examined as to the presence of rat runs. These runs should be closed, when possible, coupled with arrangements for the destruction of the vermin frequenting them. Steps should be taken to encourage the keeping of cats and the placing of rat-traps in or near rat runs.

When a case of plague occurs among troops, their families or their followers, the measures detailed in para. 83 will be carried out, particular attention being directed to the existence of rats, mice, rat runs and other channels by which vermin of this kind can obtain shelter or gain access to men and their clothing. Persons, other than those attacked, who are removed from a room or tent under para. 83, will be kept apart from all others who have not been living in the same room.

Page 19, para. 84-A—

Delete full-stop after word “disinfected” at the end of the 4th clause, and add “and exposed to the sun”.

The occurrence of plague cases among troops must not be regarded as necessarily involving migration of the whole unit into camp. Where the condition of the lines is bad and such as to offer reasons to believe that the buildings contain infected rodents, immediate evacuation is indicated; so also where a series of cases have occurred within a short period of time, say, a week, complete evacuation, coupled with a thorough

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overhauling and disinfection of all clothing and bedding, must be carried out. The S. M. O. concerned must use his discretion in all cases, attaching due importance to the known channels of infection in this disease.

The value of-plague inoculation during times of epidemicity of this disease must be remembered, and when a number of cases have occurred or a unit or group of units are seriously attacked, every endeavour should be made by the S. M. O. concerned in conjunction with the O. C. units to encourage men and all likely to be exposed to plague infection to submit to the procedure. It is undesirable to press anti-plague inoculation on the occurrence of a single case or even a few isolated cases in a unit.

The provisions of sub-paras. VI, VII, VIII and IX of para. 84, as relate to cholera, may be considered as applicable in circumstances of plague occurrence.

When intimating the occurrence of plague, the telegraphic code given for cholera in Appx. V should be used, placing, however, the word "plague" at the commencement of the message.

Medical boards and invaliding.

Medical boards, how convened.

85. Medical boards, as described below, will be assembled under the orders of the Bde. Comdr. (the O. C. the station in very urgent cases), and will consist of three medical officers, if available, but not less than two. "The President of Standing, Periodical and Annual Invaliding Boards will invariably be the D. D. M. S. or A. D. M. S. of the Division or Brigade. In cases of urgency, or when a special board is necessary, the G. O. C. or the O. C. station can appoint the S. M. O. present as President." If it can be avoided, the medical officer in charge of a case should not be a member of the board which considers it, and in no case can he act as president.

- (a) Standing—whenever required, at Divl. or Bde. Hd.-Qrs.
- (b) Periodical invaliding (British)—early in September, January, and (if necessary) February.
- (c) Annual invaliding (Indian troops and followers)—ordinarily in November, at the Hd.-Qr. stations of corps or depôts. Men of the Punjab police may be brought before these boards. When a board cannot be assembled, the O. C. corps is authorized to dispose of cases on the certificate of the medical officer.
- (d) Special—at any time or place, as required.

General cases dealt with by medical boards.

86. The following cases will be dealt with by medical officers and medical boards, in accordance with the instructions on the forms or in the regulations noted below:—

- (a) British officers, soldiers on the U. L., lady nurses, school-masters and schoolmistresses, and the families of soldiers, recommended leave, furlough, or change of climate, on medical certificate—see I. A. F. M-1243 and A. R. I., Vols. I and II.
- (b) Warrant and N. C. Os. and men of British corps, proposed for change of climate, or invaliding, see A. F. B-172, 178, 179, and A. R. I., Vol. II.
- (c) Insanes—
 - (i) Officers and departmental warrant officers—see I. A. F. M-1243-4, A. F. B-183, and A. R. I., Vol. II.
 - (ii) Soldiers—see A. F. B-172, 178, 179, 183, I. A. F. M-1244 and A. R. I., Vol. II.
 - (iii) Soldiers' families—see Civil Lunacy Act and I. A. F. M-1245.
- (d) Claims of British officers to wound pensions or gratuities—see A. F. A-45A, R. W., and A. R. I., Vol. I.
- (e) Applications for furlough or leave (under the 1866 or 1875 rules) on account of disability which originated on field service—see I. A. F. M-1243.

General
rules for
management
of insanes.

93. Insanes will, when practicable, be accommodated apart from other patients. Medical officers in charge will issue, in writing, such special instructions as may be suitable for each case, whether in hospital or travelling, and will supervise the general bearing and conduct of subordinates and attendants towards these patients. Mechanical restraint will be restricted to the use of the strait-jacket and bed sheet. Orders for attendants on insanes are given in I. A. F. M-1202.

Hospitals, dispensaries.

General.

Authorized
accommoda-
tion and
furniture.

94. The hospital accommodation authorized for troops and followers, and the instructions relating to the supply, custody, repair and

Para. 94.—After the word "furniture" in line 6, add "and Supply" Oct. Appx. I. A. O.—1918.

furniture on ordinary requisition. The rules relating to the receiving and making over charge of buildings and stores are contained in A. R. I., Vol. II.

Hospital
barrack
damages.

95. The orders contained in A. R. I., Vol. II, which relate to barrack damages are applicable to hospitals. Barrack damages which are not chargeable to the hospital establishment, or to individuals, will be proportionately assessed against the units sending sick to the hospital.

Hospital
gardens.

95-A. Where a station hospital garden, or a garden for the combined hospital of Indian troops, is not maintained by the cantonment authorities, and the hospital has a separate compound, the cantonment fund may defray the initial cost of laying out a garden and give a monthly upkeep allowance of Rs. 8.

Persons
treated in
station
hospitals.

Station hospitals, British troops.

96. Station hospitals are for the reception of European N. C. Os. and men, and also, when suitable accommodation is available, for officers, lady nurses, warrant officers, and other Europeans (see para. 67 and A. R. I., Vol. II).

97.

Non-dieted station hospitals.

Non-dieted
hospitals.

98. Non-dieted station hospitals are allowed for stations where less than 50 British troops are quartered, and at railway rest-camps where the distance from a station hospital renders this necessary.

Hospital equipment is sanctioned for rest-camp hospitals, and for Seetabuldee (see Army Tables, Medical). At other places, barrack bedding, clothing, and utensils will be used for the sick and will be in regimental charge. Rations and cooking will be arranged for regimentally, but for special cases medical comforts and hospital cooking will be available.

Hospital
arrange-
ments for
movements.

Hospitals for troops moving.

99. The following hospital arrangements will be made for troops moving. Hospital stores and equipment will be made up as far as possible from the station stock, and will be replenished as required from hospitals on the road—

(a) by rail—the hospital accommodation is given in A. R. I., Vol X, and equipment in Army Tables, Medical;

(b) by road—a special scale of equipment, tents, lascar, carriage and ambulance transport is laid down in Army Tables, Medical and Units, and I. A. F. Z-2150. Rations and cooking are arranged for regimentally, but medical comforts and hospital cooking will be available for special cases. When these arrangements are considered insufficient, one or more sections of a field ambulance may be sent, with the approval of the D. M. S.;

(c) at camps of instruction—special as may be ordered;

(d) by sea—see the Marine Regulations. Hospital clothing as actually required by troops proceeding to England by hired

transports (not R. I. M. vessels), will be shipped on the indent of the medical officer, countersigned by the Brigade A. D. M. S.

100. A watchman may be employed by the S. and T. Corps for guarding hospital stores on the line of march, when the medical officer in charge certifies that no military guard or policeman is available. Watchman for hospital stores.

Station family hospitals.

101. Station family hospitals are sanctioned for the stations noted in A. R. I., Vol. I, and are intended for the reception of the families of British troops, etc., as laid down in para. 67. Boys over 10 years of age will, as a rule, be sent to hospitals for men. Family hospitals are sections of station hospitals; those only opened occasionally as required will be non-dieted, and generally located in spare barrack rooms. Sick women and children at out-stations may be sent when necessary to the nearest station family hospital. Station family hospitals.

Regimental hospitals, Indian troops.

102. A regimental hospital is authorized for each unit of Indian cavalry and infantry, and British or Indian mountain artillery. Native drivers of other artillery units, and native officers and men of the Imperial service troops when attached to the army, will also be treated in these hospitals without charge. Hospital for Indian troops.

All hospital buildings for Indian troops, together with all their equipment and stores, will be in charge of the S. M. O., I. M. S., who will, under the orders of the O. C. station, allocate the accommodation for the sick as occasion may require, keeping native officers in rooms apart from other ranks, and the men of each unit in separate wards or groups of beds, contagious or infectious cases excepted. Otherwise, the O. C. the unit will be responsible for discipline and all questions of interior economy.

Followers' hospitals.

103. Regimental followers' hospitals are provided for the native establishments attached to British units and the men of the A. H. Corps. They are under the officer in charge of the station hospital and receive their servants and supplies from that source. Departmental followers' hospitals are for men of the A. B. Corps and the followers of departments and are in the charge of the staff surgeon. Regimental and departmental followers' hospitals.

At stations where neither followers nor cantonment hospitals exist, or do not afford the necessary accommodation, regimental and departmental followers may be admitted to hospitals for Indian troops. At Kirkee, followers of the ordnance department are accommodated in a native section of the station hospital. Condemned bedding and clothing will be supplied to these hospitals by the S. and T. Corps.

Dispensaries.

104. Dispensaries are sanctioned at—

- (a) Fort William—for dispensing the prescriptions for the station and district staff. A ward with six beds, for British troops, is attached. Dispensaries, garrison.
- (b) Fort St. George—for dispensing the prescriptions for the ordnance staff and Governor's band.
- (c) Jubbulpore, Kirkee, and Cossipore—for the treatment of factory employés.
- (d) Baroda and Neemuch—for followers.

Cantonment hospitals and dispensaries.

105. Cantonment hospitals and dispensaries are provided by cantonment authorities under the provisions of, and for the purposes stated in, the Cantonment Code. No cantonment hospital or dispensary will either be opened or closed without the sanction of the G. of I. Under the orders of the Divl. Comdr. they will be administered by the Divl. D. D. M. S. or A. D. M. S. In other respects, they are under the cantonment authorities. They are classified as— Provision, management and classification.

Class A

" B

C

} According to the general utility of the hospital as displayed by the work performed th

Dispensaries.

117. In order to ensure the expenditure of field medical comforts before deterioration, medical officers will accept these articles in place of fresh stores of a similar nature when tendered by the S. and T. Corps. Turn-over of field medical comforts.

118. Ice for ordinary purposes is authorized for hospitals in the plains during such periods as may be fixed by the Bde. Comdr. (see Army Tables, Medical). Hot weather supply of ice.

Indian troops and followers.

119. The medical officer will note in the diet sheet the ordinary diet with which the patient should provide himself, and will apply, if necessary, for an advance of the man's pay to meet the cost of purchase. When ordering diet for Indian sick the caste or religion of the patients, and the restrictions as to food which this imposes on them, will be borne in mind. Patients provide their own diets.

120. For cases requiring it, the medical officer may order a free supply of medical comforts (see I. A. F. M.-1204 and Army Tables, Medical). Medical comforts to supplement diets.

Hospital equipment.

General.

121. Hospitals will be equipped, according to the authorized accommodation, with the articles detailed in Army Tables, Medical. Sections of station hospitals will be supplied with equipment direct, except in the case of articles of medical supply, certain necessities which are not purchased locally, and stationery which will be distributed by the medical officer in charge, who will include in his requisitions the requirements of all the British sick in the station. The medical, surgical and hospital stores (including corps medical mobilization equipment) for the use of Indian troops in each station will be kept in a single Central Store, but small branch stores will be maintained to meet the immediate requirements of the hospitals of outlying units. The rules relating to requisitions, and the general procedure and responsibility connected with stores, will be found in A. R. I., Vols. II and III, and Mobilization Regulations, India. General rules.

122. The senior member of the I. S. M. D. will be responsible for the safe custody of all stores in medical charge. Receipts and issues of expendable articles will be superintended by the medical officers in charge, and recorded in the expense store book (I. A. F. M.-1227). Stores in medical charge.

123. Loss or damage to medical instruments will be assessed at ~~full~~ two-thirds, and one-tenth of stock book rates, according as the articles were serviceable (or of silver), repairable, and unserviceable, respectively. Medical instruments.

124. Articles which have been used in connection with persons suffering from infectious diseases, and which cannot be destroyed under the orders of the O. C. the station, will be replaced by the voucher for their replacement. Infectious diseases.

125. When hospitals are temporarily or permanently closed, the equipment will be disposed of under the orders of the Bde. Comdr. Disposal of equipment.

Medical and surgical stores.

126. Medical store depôts are under the control of the Bde. Comdr. they supply the articles enumerated in the Army Tables. Medical stores.

127. The authorized medicines and ~~expensive~~ Medicines and instruments. scale is laid down, may be obtained in ~~the~~ Scale of prices. by the Bde. A. D. M. S. Instruments, ~~expensive~~ Instruments. stores are allowed according to the ~~scale~~ Scale of prices. The administrative loan equipment ~~will be~~ Administrative loan equipment. of D. D. M. S. or A. D. M. S. ~~will be~~ D. D. M. S. or A. D. M. S. required. Other articles, not ~~of~~ Other articles. obtained on loan from other ~~hospitals~~ Hospitals. surgical stores (surgical instruments and ~~any~~ Surgical stores. of the D. M. S.) for ~~emergencies~~ Emergencies. met from the fixed ~~allowance~~ Fixed allowance. Brigades for the purchase of ~~medical~~ Medical stores.

127-A. In the case of ~~temporary~~ Temporary. sary will, as ~~circumstances~~ Circumstances. for each group of ~~stores~~ Stores.

be strictly limited to actual requirements, and individual regimental dispensaries will only be kept up when distance, isolation, etc., render them absolutely necessary.

Provision
of surgical
appliances.

128. Surgical appliances may be supplied at the public expense as follows :—

- (a) *artificial limbs and eyes*—to British soldiers, and native officers and soldiers, who have, whilst serving, lost a limb or eye;
- (b) *artificial teeth* (i)—to British regimental soldiers not below the rank of Sergeant, and to N. C. Os. of the Indian Army not below the rank of duffadar or havildar, who incur such loss of teeth as would otherwise cause their discharge as invalids, if it is certified by a medical officer that the provision of an artificial denture would render them efficient. The certifying medical officer should state which teeth have been lost and how many require replacement;
- (ii)—to British and Indian regimental soldiers, on being invalided, who, as the result of wound, injury or disease directly attributable to active service, incur such loss of teeth as to render them inefficient;
- (iii)—to British and Indian regimental soldiers, who, as the result of (1) injury received whilst on duty, otherwise than through their own fault, or (2) wound or injury directly attributable to active service, incur loss of teeth.

Any charges necessarily incurred on account of the extraction or stopping of teeth under similar conditions will likewise be borne by the State, also charges for the administration of anaesthetics when the D. P. M. S. A. D. M. S. of the Division or Brigade concerned certifies that no military medical officer could be made available to conduct the administration.

- (c) *trusses, crutches, elastic stockings, and other surgical appliances*—to British soldiers and their families, and Indian officers and soldiers entitled to medical attendance (see para. 67).

Repair,
replacement,
and method
of supply.

129. The surgical appliances mentioned above will be replaced or repaired whilst a soldier continues to serve with the colours, or the soldier's wife and children continue to be entitled to medical attendance. After a soldier's discharge any appliances already provided for himself may be replaced or repaired at the discretion of the Brigade A. D. M. S., but such repairs and renewals will, as a rule, be restricted to soldiers who have been discharged as invalids. In all cases, however, it must be shown that the loss or damage arose from circumstances beyond the applicant's control.

NOTE.—Particulars regarding the invaliding of, and the issue of any surgical appliances to, the applicant can be obtained from his Medical History Sheet (A. F. B-178 and I. A. F. M-1242) which, after discharge, is kept—

- (i) in the case of British troops by the Officer in charge of Records concerned—*vide* instructions on A. F. B-268, and,
- (ii) in the case of Indian troops, by the O. C. regiment concerned—*vide* A. R. I., Volume II.

Retention of
unauthori-
zed articles.

130. Unauthorized articles of equipment will be entered in I. A. F. M-1224, and can only be retained under the sanction of the Divl. D. D. M. S. or A. D. M. S. No replenishing of their contents nor any repair of these unauthorized equipment is permissible.

Pocket
cases,
medical sub-
ordinates.

131. Every member of the I. S. M. D. in military employment will be supplied with a pocket case of instruments, which will be shown in the surgical ledger (I. A. F. M-1224) supported by an annual certificate of possession from each subordinate; the certificate will take the place of receipt and delivery vouchers in the case of transfer. The cases will continue to be shown in the ledger when subordinates proceed on field service, and will be noted in red ink until their return or transfer. The Bde. A. D. M. S. and the medical storekeeper will note repairs or renewals which are not due to fair wear and tear. The cases will be handed in when the subordinates proceed on leave; are transferred to civil employ-

ment, or become non-effective. In the event of casualties in the field the disposal of the pocket case will be reported to the medical officer in whose ledger it is shown.

132. Medical officers will use their own cases of pocket instruments, which may be renewed or repaired by the medical store depôts on payment (see Army Tables, Medical). Medical officers' pocket cases.

133. Under the orders of Divl. D. D. M. S. or A. D. M. S., as the case may be, the medical and surgical stores belonging to field hospital equipments and the field medical equipment of units will be periodically turned over by expenditure in station and regimental hospitals, and at once replaced by fresh stock. Turn-over of field medical stores.

134. The D. M. S. may, in consultation with the D. G., I. M. S., modify the list of contents of the field medical equipments. Field medical equipment.

135. Neither hog's lard, nor beef suet, should ever be used in the preparation of ointments. Lard and beef suet.

136. Quinine and other medicines may be issued as prophylactics to the troops for such period as may be sanctioned by the O. C. the station. Prophylactic issues of drugs.
Supply and Transport stores.

A. R., I., Vol. VI.

(i) Delete paragraph 137 and alter the heading to "Other Stores".

(ii) Paragraph 138 is *reconstructed* as follows:—

"Officers Commanding station hospitals will make a selection once a month of hospital equipment for condemnation and repair.

Ordnance Stores will be surveyed and dealt with as laid down in A. R., I., Volume II."

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Case No. 963.

in the hospitals for British troops which is shown in I. A. F. M-1203, and instructions regarding its supply will be found in Army Tables, Miscellaneous Services.

Reports and returns.

141. The reports and returns pertaining to the medical services and instructions regarding their submission are given in I. A. F. Z-2000. Orders relating to their preparation, if not included in regulations, will be found in the prescribed forms. The instructions contained in the Regs. A. M. S. regarding the statistical and medical documents connected with British troops are generally applicable to India; the service in India should be reckoned as laid down in K. R. General.

142. One set of returns will be prepared for each station hospital, in which will be incorporated the details of the several section hospitals thereof. Station hospital returns.

143. Cases of sickness among military officers not in civil employment, treated by civil medical officers, will be reported on the date of discharge, direct to the D. M. S. in India, Simla, giving particulars as indicated below (rank, name, unit, etc., will not be required, but medical officers reporting will satisfy themselves that no return of the case has been made previously)— Medical certificates furnished by civil surgeons.

Confidential.—Sick report of a Military officer British Service
Indian Army under my treatment at Annual serial number (from Medical
Date of Admission officer's private visiting list) Date of Discharge Disease
Remarks

144. In forwarding the annual health and sanitary returns, Bde. A. D. M. S. will note on matters of special importance and describe the measures taken during the year under report in respect of these and the matters dealt with in previous annual reports, also their re Notes on annual returns by Bde. A. D. M. S.

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APPENDIX TO INDIA ARMY ORDERS, 1918.

SECTION 6.

GOVERNMENT OF INDIA,

ARMY DEPARTMENT;

Dated Simla, the 1st October 1918.

THE following corrections to **Army Regulations, India, Volume VI**, are promulgated by direction of the Right Honourable the Governor General in Council:—

CORRECTIONS.

Corrections to volumes contained in this Appendix are:—

Section 1.	A. R., I., Vol.	I.
" 2.	" "	II.
" 3.	" "	III.
" 4.	" "	IV.
" 5.	" "	V.
" 6.	" "	VI.
* " 7.	" "	VII.
* " 8.	" "	VIII.
* " 9.	" "	IX.
" 10.	" "	X.
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" 14.	Army Tables, Medical.	
" 15.	Batty. of R..H. A., Q. F. 13-pr. guns.	

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Appendix I.

Appointments.

Appointments.	Conditions applicable.	Nominated by	Sanctioned by	Where published.	Tenure in years.	Conditions.
D. D. M. S. Division	(2)	D. M. S.	C.-in-C.	I. A. O.	(a)	(1) I. M. S. appointment.
A. D. M. S. Divn. and Brigade	(3), (4)	Ditto	Do.	Do.	(a)	(2) Surgeon-Generals—2 of the British Service; 1 of the I. M. S., nominated by D. G., I. M. S.
Asst. Secy. to D. M. S. in India	(5)	Ditto	Do.	Do.	...	(3) Colonels—10 of the British Service; 9 of the I. M. S., nominated by D. G., I. M. S.
Surgeon to the Viceroy	(6), (7)	Viceroy	Viceroy	Gazette of India.	...	(4) A Lieutenant-Colonel in the case of the Aden Brigade, nominated by D. M. S.
Surgeons to the Governors of Madras and Bombay.	(6)	Governor	Governor	Ditto	...	(5) I. S. M. D. appointment.
Surgeon to C.-in-C.	(6)	C.-in-C.	C.-in-C.	I. A. O.	...	(6) R. A. M. C. or I. M. S., at will.
D. A. D. M. S. (Mobilization)	(9)	D. M. S.	Do.	Do.	4	(7) Under the Government of India.
D. A. D. M. S. (Sanitary).	(8), (10)	Ditto	Do.	Do.	4	(8) R. A. M. C. appointment.
Medl. Store-keepers to Government, Bombay, Madras, Calcutta, Lahore.	(1), (7)	D. G., I. M. S.	Govt. of India	Gazette of India.	...	(9) 4 R. A. M. C. and 5 I. M. S.
Medl. Store-keeper to Government, Rangoon.	(1), (12)	Ditto	Ditto	Ditto	...	(10) Must hold a diploma in public health, or the special certificate in either State Medicine or Bacteriology, as granted after undergoing a course of instruction in the senior course at the R. A. M. College, London.
Medl. Officer, Lawrence Mily. Asylum, Sanawar.	(1), (29)	Ditto	Ditto	Ditto	2	
Surgeon Naturalist with the Government of India.	(1), (7)	Ditto	Ditto	Ditto	...	

Corrections—continued.

- Section 16. Army Tables, Batty. of R. F. A., Q. F. 18-pr. guns.
- " 17. " " Batty. of R. F. A., Q. F. 4.5-inch Howitzer, 1914 (P. I.)
- " 18. " " Batty. of R. G. A., B. L. 4-inch or 30-pr. guns.
- * " 19. " " Batty. of R. G. A., B. L. 5-inch.
- " 20. " " Mountain Battery (British or Indian), B. L. 10-pr.
- " 21. " " Company of R. G. A.
- " 22. " " Ammunition Columns, Sections of R. H. A. and R. F. A. (Q. F. 13 and 18-pr.)
- " 23. " " British Cavalry.
- " 24. " " Indian Cavalry and Bodyguards.
- " 25. " " British Infantry.
- " 26. " " Indian Infantry.
- " 27. " " Fort Armaments.
- " 28. " " Engineer Units.
- " 30. " " Frontier Garrison Artillery.
- " 31. " " Transport.
- " 32. " " Miscellaneous Services.
- " 32-A. " " Miscellaneous Services, Part I.
- " 33. Regulations for Magazines in India, and Care and Preservation of War Matériel.
- " 34. Instructions for Armourers, India.
- * " 35. Price Vocabulary of Stores, Indian Addendum.
- " 36. Field Service Regulations, Part II, Indian Supplement, War Establishments, India: Mobilization Regulations, India.
- * " 37. Field Service Manuals (less Medical).
- " 38. War Mannals (less Medical), and Tables of Books, Forms and Stationery taken into the Field by the Army in India.
- " 39. Training Manuals, including Musketry Regulations (but less Medical).
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- * " 45. Instructions for the payment of British Troops serving in India.
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- * " 48. Instructions, I. T.
- " 49. Instructions, Staff.
- " 50. Mobilization Store Tables, Battery Territorial R. F. A., B. L. 5-inch Howitzers, Indian Addendum.
- * " 51. Mobilization Store Tables, Battery Territorial R. F. A., B. L. O. 15-pr. guns, Indian Addendum.
- * " 52. Mobilization Store Tables, Battalion, Territorial British Infantry, Indian Addendum.
- " 53. Army Tables, Ammunition Column, R. F. A., 4.5-inch Howitzer.
- " 54. " " Battery of Mountain Artillery (B. or I.), B. L. 2.75-inch guns.
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- " 56. Rules and Regulations, Indian Defence Force (Provisional).
- " 57. Army Tables, Machine Gun Company.
- " 58. Army Tables of a Divisional Signal Company, 1917. (Provisional.)
- " 59. Equipment and Mobilization Store Tables, Garrison Battalion of British Infantry, 1918.

APPENDIX TO INDIA ARMY ORDERS, 1918.

SECTION 6.

GOVERNMENT OF INDIA,

ARMY DEPARTMENT ;

— Dated Simla, the 1st July 1918.

THE following corrections to **Army Regulations, India, Volume VI**, are promulgated by direction of the Right Honourable the Governor General in Council :—

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"	59.	Equipment and Mobilization Store Tables of a Garrison Battalion of British Infantry, 1918.
"	60.	Army Tables, M. L. 2-inch Trench Howitzer and 3-inch Stokes Trench Howitzer, India, 1918.

PREFACE.

THIS volume of Army Regulations, India, contains the orders of the Government of India on military works matters. It is intended primarily for the use of the officers and subordinates of the Military Works Services (including Military Works Accounts). Such subsidiary instructions as may be necessary for the efficiency of the Military Works Services will be framed in accordance with the spirit of these orders and will be issued by the Director General of Military Works.

Officers are expected to interpret these regulations reasonably and intelligently, with a due regard to the interests of the service. No attempt has been made to prescribe for necessary and self-evident exceptions, nor for such matters of detail as should be provided for by the Director General of Military Works.

The other volumes of regulations with which the Military Works Services are concerned are:—

King's Regulations.

Army Regulations, India, Vol. I, "Pay and Allowances."

" " " " II, "Regulations and Orders for the Army."

" " " " III, "Financial Instructions."

" " " " VII, "Dress."

" " " " X, "Passages."

" " " " XI, "Clothing."

Army Tables, "Establishment and Supplies."

Army Act, and Indian Articles of War.

Civil Service Regulations.

Public Works Department Codes, Volumes I, II and III (in cases where they are applicable [see Army Regulations, India, Volume III, paragraph 289 and G. G. O. No. 1037, dated the 15th September 1899, paragraphs 33, 34 and 35] and in cases which have not already been provided for in the Army Regulations).

W. R. BIRDWOOD, *Major-General,*
Secretary to the Govt. of India.

(This book includes all corrections up to, and inclusive of, the April Appendix to India Army Orders, 1914.)

Abbreviations.

A. D. Army Department.
A. D. M. S.	. . .	. Assistant Director of Medical Services.
A. F.	. . .	. Army Form.
Appx.	. . .	. Appendix.
A. R. I.	. . .	. Army Regulations, India.
A. C. R. E.	. . .	. Assistant Commanding Royal Engineer.
Bde.	. . .	. Brigade.
Bde. Comdr.	. . .	. Brigade Commander.
C-in-C.	. . .	. Commander-in-Chief.
C. G.	. . .	. Comptroller General.
C. R. E.	. . .	. Commanding Royal Engineer of a Division.
C. S. Regs.	. . .	. Civil Service Regulations.
D. A. A. G.	. . .	. Deputy Assistant Adjutant General.
D. A. G.	. . .	. Deputy Adjutant General.
D. G. M. W.	. . .	. Director General of Military Works.
D. G. O.	. . .	. Director General of Ordnance.
Divn.	. . .	. Division.
Divl. Comdr.	. . .	. Divisional Commander.
E. Accts. M. W.	. . .	. Examiner of Accounts, Military Works.
G. E.	. . .	. Garrison Engineer.
G. of I.	. . .	. Government of India.
Hd. Qrs.	. . .	. Head Quarters.
H. S.	. . .	. Higher standard.
I. A. F.	. . .	. India Army Form.
I. S. M. D.	. . .	. Indian Subordinate Medical Department.
L. S.	. . .	. Lower standard.
M. S. C.	. . .	. Military Secretary to the Commander-in-Chief.
M. W. S.	. . .	. Military Works Services.
N. C. O.	. . .	. Non-Commissioned Officer.
O. C.	. . .	. Officer Commanding.
P. W. D.	. . .	. Public Works Department.
P. W. F.	. . .	. Public Works Department Form.
Q. M. G.	. . .	. Quartermaster-General.
R. A.	. . .	. Royal Artillery.
R. A. M. C.	. . .	. Royal Army Medical Corps.
R. E.	. . .	. Royal Engineers.
S. and T.	. . .	. Supply and Transport.
S. D. Officer	. . .	. Sub-divisional Officer.
T. C. E. College	. . .	. Thomason Civil Engineering College.
U. L.	. . .	. Unattached List.
W. O.	. . .	. War Office.

Definitions.

In these regulations unless inconsistent with the context :—

Bde. or Divl. Comdr. . . . .	. Includes the officer in temporary command of the Bde. or Divn.
Bde. Comdr. . . . .	. Includes the Divl. Comdr., in the case of stations and troops directly under Divl. Hd. Qrs.
Divl. Comdr. . . . .	. Includes the officer commanding an independent brigade.
Soldier . . . . .	. Includes warrant officer and non-commissioned officer.
Subordinate establishments	. Means all establishments in the M. W. S. except R. E. and superior accounts officers.
Office establishment . . . . .	. Includes all persons engaged in clerical duties and inferior servants employed in offices, but not graded accountants.
Petty establishment . . . . .	. Includes storekeepers, artificers, watchmen, messengers and inferior servants not attached to offices, and whose salaries are not provided for in any work estimate.
Local M. W. officer . . . . .	. Means the officer or subordinate in local charge of military works.
Military buildings . . . . .	. Means all buildings for military purposes whether for the accommodation of troops or departments.
Regimental buildings . . . . .	. Means all buildings required in connection with the accommodation of troops.
Primary buildings . . . . .	. Are those used only for dwelling purposes, <i>e.g.</i> , barracks, quarters and hospitals.
Subsidiary buildings . . . . .	. Are the outhouses, etc., of primary or auxiliary buildings, <i>e.g.</i> , cookhouses, latrines, wash-houses, servants' quarters, enclosure walls, etc.
Auxiliary buildings . . . . .	. Are all buildings other than the above, <i>e.g.</i> , guard rooms, workshops, institutes, mess-houses, offices, bakeries, stores, factories, etc.
Fixtures . . . . .	. Means all articles fixed or bolted to the structure of a building. This includes punkahs and their attachments, except fringes and pulling ropes which are furniture.
Furniture . . . . .	. Means all moveable articles necessary for the accommodation of the occupants of a building.

Paras. 1-6.

ARMY REGULATIONS, INDIA.

VOLUME XII.—MILITARY WORKS.

Organization and Administration.

1. Military works in India and all duties connected therewith are carried out by the M. W. S., except in certain localities where they are under the control of the local P. W. D. In some cases, under the orders of the G. of I., the M. W. S. carry out all civil works in a province; they may also be required to execute works for a local Government or civil department.

Execution of military works.

Establishments.

2. The establishment of the M. W. S. consists of—

(a) R. E. officers who are regarded as in regimental employ, and are subject in all respects to A. R. I.

Military Works establishment.

(b) Subordinate establishments—

- (i) Upper subordinates.
- (ii) Barrack department.
- (iii) Lower subordinates.
- (iv) Office, peon and petty establishments.

(c) Accounts branch—

- (i) Examiners.
- (ii) Accountants.

Members of (b) and (c) are in departmental employment.

The sanctioned scales of establishment are given in Appx. I. The sanctioned subordinate establishments are distributed by the D. G. M. W. to lists for each division, the Aden Brigade, Rangoon, and the M. W. Central Workshop.

3. R. E. officers in excess of the sanctioned establishment will be appointed to the M. W. S. in the order in which they join for duty, irrespective of rank. Vacancies caused by officers who are absent but not seconded, will not be filled, nor will acting appointments be made, except for C. R. Es. and A. C. R. Es.

Appointment of supernumerary officers.

Administration.

4. The D. G. M. W. administers the M. W. S. and is responsible for their organization, discipline, and efficiency. In submitting proposals upon matters of importance to the G. of I., he will first obtain the sanction of the C-in-C.

The D. G. M. W. is responsible that no major work is undertaken until it has been authorized by the G. of I., and that no departure from standard designs is made without authority. He will inspect, or require any officer to do so, any important works under his control.

5. The G. R. E. is responsible for the efficiency of the works under the Divn. with the exception of those works which may be under the P. W. D. He will, under the orders of the Divl. Commr., make such inspections as may be necessary.

Similarly the A. C. R. E. of an Independent Divn., such as Rangoon, will be responsible within their respective spheres.

The C. R. E. will make an annual inspection of the works under his command.

6. The E. Accts. M. W. is the financial officer of the M. W. S. and also the independent auditor, or controller, of the expenditure on military works. He is responsible for the maintenance of financial records throughout the M. W. S.; at the same time he is responsible for the branch of the M. W. S., and at the same time he is responsible for the C. G., with whom he will co-operate.

15. The duty of a store-keeper will be confined to the custody, ^{Store-keepers.} preservation, and issue of stores, except furniture, and keeping accounts of them; he will issue stores only on an indent signed by an officer or S. D. officer.

16. An accountant is responsible to the A. C. R. E. for the accuracy ^{Duties of accountant.} of all account transactions and for the correct compilation of the district accounts in accordance with the prescribed rules

17. The estimate for a large work should make separate provision for ^{Employment of temporary officers.} any temporary officers that may be required, if their pay exceed Rs. 250 a month. A report must simultaneously be submitted to the G. of I. giving details of the temporary staff required and the necessity for it, also whether any suitable men can be obtained locally.

(i) No single salary should exceed Rs. 950 a month.

(ii) The rate of pay sanctioned for each individual cannot be increased.

(iii) Sanctions will only hold good for twelve months: if an extension is required application must be made at least three months before the sanctioned period expires.

(iv) An engagement for a special work lasts till the work is finished; otherwise, and except in cases of serious misconduct, a temporary officer is entitled to one month's notice, or pay in lieu, before discharge.

(v) Temporary employes will not be graded nor gazetted.

Temporary employes may also be engaged, under the above rules, for general duties, to supplement the permanent establishment.

Personnel.

Officers.

18. Young officers should, as a rule, be kept at the Hd. Qrs. of a dis- ^{Instruction of young officers.} trict to learn the system of work and accounts and to study the language; they should prepare designs, plans, and estimates for works required, and may, under the orders of the A. C. R. E., visit any large works or workshops in the vicinity.

R. E. subalterns on arrival in India for a first tour of service are attached for a period of 4 months to a corps of sappers and miners, under the orders of the D. G. M. W., for training before joining the M. W. S. In the case of the additional officers for the defence light sections, this attachment will come immediately after the period of one month spent at the port on arrival in India. During the period they are attached to the sappers and miners, their pay, etc., will form a charge against M. W. funds, see A. R. I., Vol. I.

19. The records of service of all officers of the M. W. S. are kept ^{Records of service.} by the M. S. C.

Upper Subordinates.

20. A combined gradation list for military promotion of warrant and ^{List of upper subordinates.} N.-C. Os. of the M. W. S. and P. W. D. is maintained by the D. G. M. W.

21. The number of commissioned and warrant officers on the combined list of the M. W. S. and P. W. D. is automatically adjusted, as the total strength of the establishment increases or decreases, on the following scale, viz. :—

$\frac{1}{4}$ th	Commissaries.
$\frac{1}{4}$ th	Deputy Commissaries.
$\frac{1}{2}$	Assistant Commissaries.

and the latter being sub-divided as follows:—

$\frac{4}{11}$ ths	Conductors.
$\frac{1}{11}$ ths	Sub-con

Transmission of orders affecting accounts. Information from E. Accts. M. W.

Postings and transfers.

7. The E. Accts. M. W. will receive copies of all G. of I. orders affecting the work of his office through the C. G. or direct from the A. D.; he will submit copies of all general letters issued by him to the C. G.

8. The D. G. M. W. or a C. R. E. is empowered to call upon the E. Accts. M. W. to furnish him with such information as he may consider necessary.

9. C. R. Es. and A. C. R. Es. are appointed, and other officers are posted to and transferred from Divns. and Independent Bdes., under the orders of the C-in-C. Officiating appointments of C. R. Es. and A. C. R. Es., where no change of Divn. is involved, are made by the Divl. Comdr. concerned, with the concurrence of the D. G. M. W.

All other postings to, and transfers from, Divns. are made by the D. G. M. W. Accountants are posted direct to districts by the E. Accts. M. W. All transfers within a Divn. are made by the Divl. Comdr.

The C. G. can transfer accountants from the M. W. S. to other administrations and *vice versa*.

Executive.

Duties of A. C. R. E.

10. It is the duty of the A. C. R. E. to carry out all works under his orders with due regard to good quality, expedition, and economy; to satisfy himself that no unauthorized expenditure is incurred and that no deviations are made from sanctioned designs without due authority. He is responsible under the Bde. Comdr. for the condition of all buildings in his charge.

Sub-divisions.

11. To facilitate the transaction of business, sub-divisions are formed under the sanction of the D. G. M. W. They will consist of certain definite charges that may be suitably held by a G. E. or a selected upper subordinate. Europeans will usually be placed in charge of those in which British troops are quartered. Sub-divisional allowance of Rs. 30 a month may be sanctioned by the Divl. Comdr. within the number allotted to the Division (C. R. E., N.-W. F. Province, in the case of the Kohat, Bannu, Derajat and Abbottabad Bdes.), to a subordinate in charge of a sub-division, provided that a G. E. is not in direct charge of the same, and that no further allowance is admissible for the charge of more than one sub-division. A sub-overseer should only be placed in charge when no G. E. or upper subordinate is available. The number of sub-divisional allowances for the M. W. S. is restricted to an aggregate of 132 distributed among Divisions and Independent Brigades as the D. G. M. W. may direct.

A. Bde. Comdr. can withhold a sanctioned allowance, if he deems it desirable to do so, for any reason.

Duties of upper subordinates.

12. Upper subordinates are responsible for the good quality and prompt execution of all works under their charge. They will keep muster rolls of labour and the accounts for their works, and will see that all their employes are regularly paid. If there is no cashier or storekeeper, they will also have charge of cash and stores.

Barrack department.

13. The barrack department establishment will, under the orders of the A. C. R. E. or G. E., carry out the duties connected with the occupation of military buildings by troops or departments, and with the manufacture, repair and distribution of barrack, hospital, and other furniture.

14. Barrack Dept. sub-divisions are formed under the sanction of the D. G. M. W. and will consist of certain definite charges. The D. G. M. W. will decide which sub-divisions, within a maximum limit corresponding in number to 25 per cent. of the total establishment, shall carry sub-divisional allowance at Rs. 30 a month. The grant of the allowance to an individual may be sanctioned by the divisional commander (G. O. C. Bde., in the case of Aden) provided the conditions laid down in para. 11 are complied with.

The allowances allotted to Burma will be disposed of under the orders of the local P. W. D. authorities.

The Brigade Commander can withhold a sanctioned allowance, if he deems it desirable to do so for any reason.

tioned separately for the Examiner's, C. R. Es., A. C. R. Es. and G. Es. offices, as required.

32. Movements due to privilege leave of upper and lower subordinates, members of the barrack department, and clerks, draughtsmen, cashiers and storekeepers of all grades, will be reported to the C. R. E. Reports of movements.

All movements of officers, and movements not due to privilege leave of upper subordinates, lower subordinates, 1st and 2nd grades, members of the barrack department, clerks drawing above Rs. 125 per mensem, draughtsmen, cashiers and storekeepers of all grades, will be reported to the D. G. M. W., and those of other subordinates to the C. R. E.

33. Civilian members of the M. W. S., whether permanent or temporary, are subject to the C. S. Regs. Members subject to C. S. Regs.

Military upper subordinates are subject to the C. S. Regs. in regard to joining time, local travelling and acting allowances (except that they receive temporary promotions from grade to grade).

The appointment of a substitute in place of an upper or lower subordinate granted privilege leave is not admissible. The grant of conveyance allowance to members of the barrack department is governed by the C. S. Regs. For this purpose their appointments will be regarded as equivalent to those held by upper subordinates of the Public Works Department.

34. An Indian soldier on the U. L. will receive in the M. W. S. the same consolidated salary as a civilian in a similar grade, and may count his service towards pension as follows:— Indian soldiers on the U. L.

	Rs.
To men of 15 and under 20 years' service, as sepoy	4
" " " 20 " " 24 " " as naik or havildar	7
" " " 24 " " 28 " " as jemadar	15
" " " 28 years' service, as subadar	30
" " " 32 " " if of unblemished character and specially recommended	50

He may, however, take the pension of his actual military rank should it be higher. Pension can only be claimed after 15 years' service and when the applicant has been pronounced unfit for further service by a medical board, except that after 32 years' service, the pension of Rs. 30 can be claimed without an invaliding board. If an Indian soldier takes his discharge from the army, his future service is pensionable under the C. S. Regs. The pension is chargeable to the department in which the man has spent the greater part of his service. An Indian soldier on the U. L. may be granted leave under the uncovenanted service leave rules, provided that the State is put to no extra expense.

35. Civil upper subordinates may be examined in Hindustani Burmese under the rules in A. R., I., Vol. II, but if, not being pure Hind- Asiatics, they have been born and brought up in India, they will receive a reward of Rs. 30 for each part of the L. S. and Rs. 40 for afterwards passing the H. S., or Rs. 100 on passing the H. S. at once. If not born and brought up in India, they will receive Rs. 50 for the L. S. and Rs. 120 for the H. S., or Rs. 200 for the H. S. at once.

36. Permanent upper subordinates may also receive a reward of Rs. 180 for passing the L. S. test in the vernacular of the Burmese which they are serving provided they pass within two years of joining the province, exclusive of time spent on leave (other than privilege and deputation outside the province). Men not being Hind- brought up in India, receive Rs. 90 only. Those who are Burmese which are admissible to accountants also, are Hind- in two years, Rs. 180; L. S. within five years, Rs. 180. For passing the L. S. or H. S. direct Burmese Those who are not pure Burmese, but Hind- receive half these rewards.

37. Leave to a civilian in the M. W. S. Burmese [who would fill up his appointment Hind-

been decided by competent authority, *i.e.*, the authority competent to dismiss him, and while so charged he shall not be permitted to resign or effect an exchange without the sanction of the G. of I.

46. Serious cases of misconduct or neglect of duty on the part of civil upper subordinates must be reported to the D. G. M. W. If a lower subordinate, who has passed through the T. C. E. College, is dismissed, the fact, with the cause of his dismissal, should be communicated to the Principal. Misconduct of civil subordinates.

47. All members of the M. W. S. (except civilian clerks at presidency towns, see Vol. VI) are entitled to gratuitous medical attendance, in cantonments from the staff surgeon, elsewhere from the civil surgeon or medical subordinate according to whether they are drawing over or under Rs. 250 a month. Attendance at a distance of five miles or more should not be required of a medical officer, except under extraordinary circumstances; if the distance is more than two miles the cost of conveyance for the medical attendant will be paid by the patient. Medical attendance.

48. In the case of large works on which many persons are employed the officer in charge should apply to the Bde. A. D. M. S. for special medical assistance, the cost of which will be sanctioned under the rules for increase to establishment. Medical attendance for large works.

49. Casualties of civil members of the M. W. S. must be reported immediately through the usual channel to the authority by whom the appointment was made, who will communicate with the deceased's relatives. Report of casualties of civil subordinates.

50. All unusual losses in the manufacture of materials and serious accidents connected with works should be reported by the local M. W. officer to his immediate superior. Unusual losses and occurrence.

51. The D. G. M. W. is empowered to sanction the supply of tents for M. W. purposes in accordance with the C. S. Regs. They should be obtained through the ordnance department. The usual hire charges must be paid on account of tents obtained for the personal use of individuals not entitled to free quarters. Tents for Government purposes.

Military Land and Buildings.

Land.

52. No military land shall be taken up or occupied by any civil department, for any purpose whatever, without the sanction of the Government of India in the Army Department obtained through the Divisional Commander and Quarter Master General in India. No building situated on military land shall be purchased or otherwise permanently acquired by any civil department without a like sanction. The opinion of the local government on all such proposals should be recorded. Before negotiations are entered into with the civil authorities for the relinquishment of any land the application will first be submitted to the Q.-M.-G. in India for the information of H. E. the C.-in-C., who will decide whether the area in question is required for military purposes. Occupation of military land by civil departments.

53. The boundaries of a cantonment, of any village or bazar within it, and of all military land, should be marked by pillars constructed and kept in repair by the M. W. S. Boundaries of cantonments and bazars.

54. In every station a fixed datum level and other permanent bench marks connected with the great trigonometrical survey should be established and recorded. All levels on the cantonment plans should refer to this datum. Datum levels in cantonments.

55. The A. C. R. E. or G. E. is responsible for the proper drainage of the cantonment, and no work, public or private, affecting the general drainage scheme shall be commenced without his approval. Drainage of cantonments.

Roads.

56. No old road in a cantonment may be closed or new one opened without the sanction of the Divl. Comdr. and no road may, in the first instance, be metalled at the public expense without the sanction of the G. of I. except a cantonment fund road in a self-supporting cantonment which may be metalled with the sanction of the Divl. Comdr., Roads in cantonments.

privilege leave to civilian subordinate establishments and leave of all kinds to menial establishments for whom the A. C. R. Es., G. E., Rangoon, and Superintendent, M. W. Central Workshop, Rurki, are the sanctioning authorities. The application of a civilian must be made through his immediate superior, and the officer who keeps the applicant's service book should certify that the leave is admissible.

Report of intention to return from leave.

38. All officers and subordinates of the M. W. S. should report their intention to return from furlough to the D. G. M. W. at least a month before sailing, stating the port and probable date of arrival.

Grant of local allowances.

39. The local allowances admissible to members of the M. W. S. are given in Appx. II. Presidency allowance may be drawn subject to such general or special orders as the D. G. M. W. may issue. This allowance and Presidency house-rent are only admissible to an officer or subordinate while actually in charge, or taking over charge, of his duties at a presidency town.

Powers of C. R. Es. regarding allowances.

40. The C. R. E. can authorise allowances, other than his own, in the cases dealt with in article 1115, C. S. Regs. The C. R. E. is his own controlling officer, and can countersign the travelling allowance journals of all officers serving under him.

The C. R. E., North-West Frontier Province, can grant the increased rates of conveyance allowance to lower subordinates beyond the North-West Frontier under article 1077, C. S. Regs.

Powers of A. C. R. Es. regarding allowances.

41. The A. C. R. E. has power to pass the travelling allowances of officers and all subordinate establishments under him, and to authorize travelling allowance to menials, permanent or temporary. He can sanction conveyance allowance to upper and lower subordinates and members of the barrack department. The same powers are vested in the G. E., Rangoon and the Superintendent, M. W. Central Workshop, Rurki, for all establishments under them.

Field service allowances.

42. Extra allowances will be granted to civil members of the M. W. S., when serving with an army in the field, as follows:—

Upper subordinates and men of the same rank.	} 35 per cent. }	of their pay from date of leaving their station to date of withdrawal of troops.
Lower subordinates and men of the same rank.		
	} 50 „ „ }	

These allowances supersede all departmental local allowances, but do not affect travelling allowance.

Receipt of fees or commission forbidden.

43. The whole time of every servant of Government is held to be paid for by the State unless otherwise provided for, and his pay is his sole legal remuneration. The receipt of, or attempt to obtain, any commission or consideration, direct or indirect, on account of any Government business, is punishable under the Indian Penal Code.

I. An exception is made in cases of arbitration as follows:—

- (i) An officer may not act as arbitrator except with the sanction of his senior officer, or unless appointed by an authorized court.
- (ii) No officer shall act as arbitrator in a case connected with his executive office.
- (iii) If he acts by private request he shall accept no fees, except as provided in the C. S. Regs.
- (iv) If appointed by a court of law, he may accept the fees the court fix.

II. An officer may accept a prize in a competition for designs.

III. If appointed by a court to act as a commission to give information on technical engineering points, he may retain such fees as are fixed by the court.

Pecuniary interest in Government works.

44. No member of the M. W. S. shall have a personal pecuniary interest, direct or indirect, in any Government work, or in the manufacture, supply, or sale, of building materials.

Suspension.

45. Any civil member of the M. W. S. whose conduct is undergoing investigation on a serious charge, should be suspended until his case has

The O. C. the station may sanction a temporary re-appropriation, if urgently necessary, provided that it does not affect the dormitories or day rooms of the men, or the quarters of the N. C. Os. Such temporary re-appropriations must be reported at once to the Bde. Comdr. and sanction must be renewed annually.

The D. G. M. W., or the local Government concerned, with the previous concurrence of the Divl. Comdr. in the case of buildings in P. W. D. charge, may sanction the loan of military buildings which are not rentable or required for military purposes to regimental or cantonment authorities or other public bodies, on the understanding that they are kept in proper repair and relinquished without claim for compensation if required for military purposes. The D. G. M. W., with the approval of the C.-in-C., may lend any vacant military building to a local Government.

63. Proposals for the demolition or sale of military buildings will be submitted on I. A. F. W. 1819. G. O. C.'s Divns. and Independent Bdes. may sanction such proposals (except as regards remount buildings) subject to the following conditions:—

Disposal of useless buildings.

- (i) That the book value of the building does not exceed Rs. 2,500.
- (ii) If the building has to be replaced, that it is an authorised one, that the cost of replacement will not exceed Rs. 2,500 and that the G. O. C. is prepared to find the necessary funds from his grant for minor works.
- (iii) That no question of the transfer of military land is involved.
- (iv) That, in cases where it would be practicable for the local Government to make use of the building, steps have been taken to ascertain that the local Government or Administration concerned do not require it for any purpose.

In cases where the book value of the building exceeds Rs. 2,500, the proposals will be submitted by the G. E., with an estimate of cost to the A. C. R. E., who will record his opinion whether the building can be utilised for any military purpose. The papers will then be submitted through the Bde. and Divl. Comdr. to the D. G. M. W. for approval in the case of stations under the M. W. S., and to the local Government or Administration concerned, through the Q. M. G. in the case of stations under the P. W. D.

In the case of remount buildings at stations under the M. W. S. the proposals will be submitted by the G. E. through the A. C. R. E. and the Superintendent of the Remount Depot concerned to the C. R. E., who will submit them, with his remarks, direct to the D. G. M. W. At stations under the P. W. D., the proposals will be submitted by the Superintendent of the Remount Depot concerned, through the Q. M. G., to the Superintending Engineer of the Circle, for direct submission, with his remarks, to the local Government for approval.

64. Buildings that may be required for the accommodation of soldiers or their families will be hired through the G. E. If there be no officer of the M. W. S. present, and the matter be urgent, the O. C. the station will take the necessary steps under his financial powers and report the matter at once to the Bde. Comdr.

Hiring buildings for troops.

65. Inspection houses are sanctioned, where necessary, for the use of officers and subordinates of the M. W. S.

Inspection houses.

66. The following are the principles on which volunteers may be allowed the use of public buildings:—

Buildings lent to volunteers.

- (i) If the buildings are likely to be required again, they should be rented to the volunteers and maintained by the M. W. S.
- (ii) If they are of no further use, the buildings may be lent to the volunteers free of charge and will be maintained by them. The buildings and site will remain the property of Government.
- (iii) If they are again resumed, the G. of I. will nsate t rps on r

provided the cost involved can be met from existing provision in the budget estimate of the cantonment.

Classification and maintenance of roads in cantonments.

57. Classification and maintenance of roads in cantonments.

- (a) *Imperial Civil or Provincial Roads.*—These consist of the sections of the main arterial communications of the country, required for civil purposes independently of the existence of the cantonment which happen to lie within cantonment limits. The cost of maintaining these sections of civil roads is met from civil funds in the same manner as the remainder of the roads of which they form a part.
- (b) *Imperial Military Roads.*—These are roads required for purely military purposes, such as those within the lines occupied by regular troops, or leading from those lines to the railway station, or to the main lines of communication of the country, or those effecting communication between the main roads in the cantonment and buildings used for military purposes. The cost of maintaining these roads is met from military works funds.
- (c) *Cantonment Fund Roads.*—These are roads required merely for the convenience of residents in the cantonment; they are maintained from cantonment funds.

The classification of roads in each cantonment will be considered by the Standing Barrack Committee.

(For procedure see Army Regulations, India, Volume II.)

Buildings.

Standard designs.

58. Deviations from standard designs of buildings, which affect authorized areas or general principles of construction, require the sanction of the G. of I. and, if no standard plan of a regimental building exists, the design must be approved by the G. of I. The D. G. M. W. can authorize deviations from standard designs of buildings provided that authorized areas and general principles of construction are not altered and the cost is not materially increased.

Numbering of buildings.

59. Every regimental building will have a distinguishing number conspicuously painted on it, by which it will be entered in the return of public buildings; each room in a building will also be numbered and its area, cubic contents, and the purpose for which it is used, will be painted on one door. The number of lamps allowed for each barrack or separate portion of a barrack, ward or reading room of a hospital, serjeants' mess, or prayer room used by British troops, will also be painted on one door.

Return of public buildings. Record plans.

60. A detailed register of the accommodation provided by every building shall be maintained on the return of public buildings.

61. The following plans must be kept on record :—

- (i) In C. R. Es.' offices—
Plans of all cantonments in the Divn.
Copies of all standard and type plans.
- (ii) In A. C. R. Es.' and G. Es.' offices :—
Cantonment plans.

Block plans of each set of barracks, scale $\frac{1}{6000}$.

Record plans of military land.

Plans of roads.

Record plans of all buildings and works.

Copies of standard and type plans.

All fair drawings submitted to Army Hd. Qrs. or the G. of I. should be clearly drawn on tracing cloth.

Re-appropriation of buildings.

62. An application for the re-appropriation, temporary or permanent, of a building, supported by the opinion of the A. C. R. E. and a statement to the effect that the authorized space per man in barracks is not affected, may be sanctioned by the Bde. Comdr., provided that the purpose to which it is to be appropriated is authorized. If the purpose is an unauthorized one, it can only be sanctioned by the Divl. Comdr. and any expenditure involved requires the sanction of the G. of I.

land originally, then only such further outlay as may have been incurred on the site should be included. If there is no record of the cost of the building, by construction or purchase, its value should be assessed by the A. C. R. E. and approved by C. R. E. In the case of houses purchased by Govt., the capital cost will be the price actually paid for the property together with the amount of the works outlay incurred by Govt. in altering, restoring or improving the building. When the capital cost is greatly in excess of the real value, application should be made to the G. of I. for sanction to the reduction of value, particulars being given as in para. 85.

The D. G. M. W. may decide what proportion of the cost of renewals due to fire or other cause should be charged to the capital cost, but must report his decision to the G. of I.

III.—Maintenance charges shall consist of the average cost of repairs, annual and quadrennial, together with a percentage on the capital cost for special repairs. These charges will be approved by the C. R. E.

IV.—Establishment and tools and plant charges will not be included in either the capital cost or maintenance charges.

V.—If a part of a building is used as an office for which accommodation is authorised, the rent shall be proportionately reduced.

VI.—Assessments of rents of buildings occupied by Divl. Comdis. shall be fixed by the D. G. M. W.

77. Additions and improvements to an officer's quarters are authorised only in a case when the enhanced rent, due to such alterations, and assessed according to rule, falls within the maximum chargeable to an officer of the rank for which the quarters were constructed.

Additions and improvements to officers' quarters.

In all other cases they are unauthorised and require the sanction of the D. G. M. W. if the cost of additions or alterations in each case does not exceed Rs. 200, otherwise, of the G. of I.

NOTE.—This rule applies to all buildings for which Capital and Revenue accounts are maintained.

78. The rent charged to a Government official shall not exceed 10 per cent. of his salary (including local allowances), but, if drawing presidency house-rent, the limit shall be increased to the extent of that allowance. The maximum rents chargeable to military officers are laid down in A. R., I., Vol. III.

Rent chargeable to Government officials.

NOTE.—In the case of members of the upper subordinate establishment and temporary upper subordinates of the M. W. S. (supervisors and overseers) and apprentice overseers who were in the service on the 19th May 1911, the maximum monthly rents chargeable are as stated below :—

	Rs.
Supervisors, 1st grade	15
Do., 2nd grade	10
Overseers, 1st grade	7
Do., 2nd and 3rd grades	6

79. The rent to be paid by any Government servant whose salary does not exceed Rs. 50 a month may be fixed by the D. G. M. W. or remitted altogether. If his salary (including local allowances) is Rs. 50 to Rs. 100, he will pay a minimum rent of 5 per cent. thereon.

Officials drawing less than Rs. 100 a month.

80. When two or more officers occupy one set of quarters, the rent shall be charged proportionately to each.

Quarters occupied jointly.

81. When a private house is hired as quarters, the occupant shall pay the rent actually paid for the house, subject to the maximum limit for rank laid down in A. R., I., Vol. III. If the rent of the house exceeds this amount, the sanction of the C. R. E. to the payment is required.

Rent for a private house.

82. The local M. W. officer will endeavour to get tenants for vacant buildings, which should generally be let by the month.

Tenants for vacant buildings.

83. For a house let to a private person, the rent shall be charged at the local rates for similar accommodation, provided it is not less than that assessed under the rules.

84. If for any reason a building is rendered wholly inhabitable, the occupant shall at once report the fact to the officer, and the D. G. M. W. may sanction a deduction from the date of the report.

(iv) If the corps ceases to exist, the buildings will revert to the G. of I.

Intimation
of com-
mencement
work.

67. When any new work or extensive alterations or repairs to a building are about to be undertaken, due notice should be given to the O. C. or departmental officer and, if necessary, the building should be taken over by the local M. W. officer for the purpose.

Inflammable
materials.

68. The erection of inflammable screens, partitions and the like is prohibited in all buildings, except those of a temporary nature and distant from other buildings. The decision as to what are objectionable as inflammable will lie with the C. R. E. subject to reference to the D. G. M. W. in case of dispute.

Water
tanks.

69. For all military buildings with inflammable roofs, or walls, water tanks should be provided in the most convenient and accessible positions. Hooks will be fixed in the verandah for the fire buckets.

Lightning
conductors.

70. Powder magazines and all buildings, which from their height or situation are likely to be struck by lightning, should be provided with lightning conductors, which should be examined and tested annually.

Butts and
ranges.

71. Butts and ranges for all services, except volunteers, will be constructed by the State. Artillery ranges (the selection of which is left to the discretion of the Divnl. Comdr.) and their encamping grounds will be maintained by the M. W. S., but compensation for damage to cultivation is not debitable to the M. W. grant. Rifle ranges must be maintained in good repair by the corps in charge; repairs to, or renewal of, the wood-work or masonry of firing platforms, markers' butts, galleries and trenches will be carried out by the M. W. S. When a corps is absent the range will be taken over and maintained by the M. W. S.

Covers for
wells.

72. All Government wells, the water from which is used for drinking or cooking purposes, are to be provided by the M. W. S., with covers to prevent contamination.

Irrigation
of soldiers'
gardens.

73. Wells, reservoirs, and water-courses, for the irrigation of soldiers' gardens, will be constructed and maintained by the M. W. S. Where Persian wheels are used they will be supplied complete in the first instance by the M. W. S. and thereafter repaired regimentally.

Punkahs.

Punkahs.

74. Punkahs are authorized in the following military buildings for British corps:—

Barracks, hospitals, and quarters for all regimental warrant officers, school-mistresses, N. C. Os., soldiers, and their families; regimental institutes, liquor bars, serjeants' messes, orderly, guard, school, and prayer rooms; offices, workshops, and cells (if specially recommended by the medical officers); also in the public quarters of officers, lady nurses, commissioned, warrant and N. C. Os. of the U. L., the I. S. M. D., and those in staff employ.

Punkah fringes, pulling ropes, and canes will be supplied free, except in the case of officers' quarters (other than those of the U. L. and I. S. M. D.) and liquor bars.

Punkahs
to be con-
nected.

75. The local M. W. officer is responsible that all punkahs are economically and efficiently connected, wherever practicable, in trains.

Quarters.

Assessment
of rents.

76. Rents for all public quarters are assessed in accordance with the following rules under which the C. R. E. is authorised to fix the rent of a building except when otherwise fixed by the G. of I.:—

I.—The annual rent shall be sufficient to cover interest at $3\frac{1}{2}$ per cent. on the capital cost of the building and its site, together with the average annual charges for maintenance and repairs.

II.—The capital cost includes the cost of the building and its site. If the house was constructed on land purchased by Government, the value of the site will be the price paid for it by Govt.; if not, it will be the value at the time these rules are first applied. If the site was Govt.

From the ledgers thus checked the distribution returns (I. A. F. W. 1814), and the annual register of furniture in the station I. A. F. W. 1815) will be compiled.

Works.

Procedure.

93. (I) Original works will include all new constructions whether of entirely new works or of additions and alterations to existing works excepting as hereinafter provided; also all repairs to newly-purchased or previously abandoned buildings required for bringing them into use.

(II)/(a) When a portion of the existing structure is to be dismantled for the reason that it is structurally unsound and is to be replaced by a work which is not in material essentials the same as the work dismantled (e.g., a thatched roof replaced by a tiled roof) or by an addition (e.g., an extension of the building), if the new work costs more than the capital value of the work it replaces, it shall be classed 'original work,' subject to the proviso that the capital value of the portion dismantled, that is, its original cost of construction plus the cost of any additions subsequently made, shall be credited against the estimate for 'original works' and debited to 'repairs,' such credit and debit being entered in the estimates submitted for sanction.

(b) In case the cost of the new work is not more than the capital value of the work dismantled the difference between the two shall be written off the book value of the building and the whole cost of the new work shall be charged to repairs.

(c) If the portion of the structure which is to be dismantled is to be removed only for administrative reasons, e.g., to make room for extended accommodation, its capital value shall be written off the book value of the building and the cost of the new work shall be charged as 'original work.'

(III) The capital value of any portion of a building which is abandoned or dismantled without replacement shall be written off the total capital value of the building.

93-A. Original works are divided into (a) special works, comprising all works costing over Rs. 50,000 each, also any work of lower cost forming part of a general scheme costing over Rs. 50,000; (b) ordinary major works, comprising all other works costing more than Rs. 2,500; and (c) minor works, all works costing not more than Rs. 2,500 each. Every work must be classed as authorised by the G. of I. before it can be carried out except as laid down in A. R., I., Vol. III.

93-B. Repairs (or maintenance) include all work, except as stated in para. 93 above, necessary to keep buildings or works in proper condition. Work costing under Rs. 10 may be charged against the repairs grant.

94. In the preliminary proposals for a work a rough approximate statement of cost only is required. When it is intended to carry out a work, an estimate will be prepared, and approved by the authority mentioned in para. 104. This approval carries with it no authority for expenditure, and no work shall be commenced until sanction has been accorded and funds allotted by the competent authority (see A. R., I., Vol. III). Before submitting to the C. R. E. for approval any estimates or designs for military works, the local M. W. officer should obtain the approval of the O. C. or departmental officer concerned and of the O. C. the station or Bde. Comdr.

95. In the case of important works or of those which involve a departure from standard designs and authorised arrangements, the approval of the C-in-C. or of the head of the department concerned, and the sanction of the G. of I. to the details of the scheme will be obtained by the D. G. M. W., or P. W. D., on preliminary projects or complete designs and estimates as may be required i

Preparation
and sanction
of estimates.

Applications
for remission
of rent.

85. Except in accordance with the above rules all reductions or remissions of rent require the sanction of the G. of I. Applications must contain the following information :—

- i. Value of building and site.
- ii. Average maintenance charges, special and ordinary.
- iii. Rent according to rules.
- iv. Area of office accommodation, if any.
- v. Deduction on account of office rent, if any.
- vi. Rent that should be paid by occupant.
- vii. Rent proposed.
- viii. Average salary of occupant.
- ix. Market rent for similar accommodation.
- x. Average rent chargeable under these rules for other Government buildings with similar accommodation.

Exemption
from rent.

86. When it is proposed to exempt an officer from payment of rent the following particulars should be given :—

- i. Actual value of the house and site.
- ii. Rent chargeable under the rules.
- iii. Salary, including allowances, of the officer.
- iv. Date proposed for grant of free quarters.
- v. Specific grounds for the concession.

Rent lists,

87. Rent lists will be prepared on P. W. F. 44A. and submitted at the end of each month by the local M. W. officer, in the case of—

- | | |
|---|--|
| Regimental officers | . to the O. C. unit. |
| Staff officers and officers R. A. M. C. | . to the officer concerned. |
| Departmental officers and subordinates | . to the senior officer of the department. |

Officers in civil employ . to the treasury officer concerned.

When a staff officer, or officer of the R. A. M. C., quits his quarters during the month, the bill for the rent should be submitted immediately, so that it may be paid on vacating or before the officer leaves the station. When an officer in civil employ quits his quarters during the month, owing to transfer, leave, or retirement, rent will be recovered from him up to the date of relief, unless he produces a special certificate from the local M. W. officer altering this date.

Rent from pensioners and private persons is to be recovered monthly in advance by the A. C. R. E.

Bills for electricity consumed in Government buildings will be similarly prepared and submitted.

M. W. subordinates
not entitled
to quarters.

88. Subordinates of the M. W. S. (except those of the barrack department) are not entitled to public quarters; but if allowed to occupy them they will pay the assessed rent subject to the maximum laid down in para. 82.

Quarters for
unmarried
school-
mistresses.

89. An unmarried school-mistress is not to be allotted quarters in a detached building or in the block for married rank and file, but should be given class A quarters in the staff serjeants' block.

Furniture.

Scale of
furniture.

90. An established scale of furniture for each station will be maintained, compiled from the Army Tables for the units in the garrison and the authorised reserve laid down in Appx. III.

Furniture
designs.

91. All articles of barrack and hospital furniture are to be constructed in accordance with the standard designs sanctioned by the G. of I. The D. G. M. W. may authorize deviations from these standard designs, provided the general principles are not altered and the cost is not materially increased.

Annual veri-
fication of
furniture.

92. An annual verification of the furniture in charge of corps and departments will be made on or about the 31st March by the officers who make the quarterly barrack inspections. An officer, or subordinate of the barrack department, will also be deputed to count the furniture in store, and certify to its existence.

The limits of civil works are different from those prescribed in the case of military works expenditure.

103. Contribution works are those executed from funds of a public nature (not Government funds), or from subscriptions by the public. If a work is to be done partly from Government funds and partly by subscription, the latter will be treated as an addition to the Government grant and the work executed under the usual rules. The money must be paid into the treasury before any liability is incurred, unless its receipt by instalments is authorised by competent authority. The design and estimate will be prepared in the usual manner, but, prior to the work being put in hand, a written approval from the authority administering the fund must be obtained with an acknowledgment that the M. W. S. is not responsible for unavoidable or reasonable excesses, due to unforeseen contingencies or alterations in design. It is the duty of the officer in charge to keep the authority concerned informed of the progress of the work and of any excess or deficit anticipated.

Estimates.

104. D. G. M. W. has power to approve all estimates for sub-heads of projects sanctioned by the G. of I. and manufacture operations and, within a limit of Rs. 50,000, estimates for:—

New authorised works; subsidiary works for large projects covered by lump sum sanctions; works for other departments, if urgent or the head of the department concerned has not sufficient powers; contribution works; furniture.

The C. R. E. of a Divn. has similar powers within a limit of Rs. 25,000, except in regard to new works forming part of a project sanctioned by higher authority, in which case he must be specially empowered.

The C. R. E. has also power to approve estimates for manufacture operations irrespective of limit when the material is for a work already duly sanctioned or for reserve stock within the sanctioned limit of the district concerned.

A. C. R. Es. have similar powers up to Rs. 10,000, except in regard to new works forming part of a project sanctioned by higher authority, in which case they must be specially empowered.

The powers of officers officiating as C. R. Es. and A. C. R. Es. are limited to Rs. 10,000 and Rs. 2,500 respectively. In special cases the D. G. M. W., can, at his discretion, enhance the powers of officiating officers up to the limits specified for permanent C. R. Es. and A. C. R. Es. He can, also at his discretion, reduce the technical powers of any individual officer by name.

G. Es. have power up to Rs. 500 in regard to estimates for minor works, for subsidiary works of large projects covered by lump sum sanctions, and for contribution works, but may be empowered by the C. R. E. to approve estimates beyond that amount but not exceeding the limits of a minor work.

105. An estimate should contain—

- (i) A list of references with a précis of the correspondence calling for the work.
- (ii) A report explaining clearly the necessity for the demand, the reasons for the design adopted, and any other points that require elucidation.
- (iii) A general specification describing the different kinds of work proposed and referring to the standard specifications in use in the district, with full details of specifications and rates for all works not included in the standard lists.
- (iv) Calculations for stability of structure and strength, of materials used, where necessary.
- (v) Detailed measurements of all the works to be carried out.
- (vi) An abstract giving the total quantities and rates of each kind of work with the cost in rupees; all incidental expenses such as compensation for land, sheds

Form of estimate.

Sanction to
a work in
parts.
Funds not
transferable.

96. Sanction may not be accorded to carry out in portions a work the total cost of which is beyond the powers of the sanctioning officer.

Defence
works.

97. Funds allotted to a work may not be utilized on any other work without re-appropriation by the competent authority.

98. Proposals for a new work of defence, or for such alterations and additions to existing works of defence as cannot be disposed of by the G. O. C. the Division or Independent Brigade under A. R., I., Vol. II, para. 339-A, shall be referred to the D. G. M. W., who will take the orders of the C-in-C. or of the G. of I., as the case may be.

For general rules regarding the control of buildings within authorised clearance zones, or within a work of defence, not affecting the defences themselves, see A. R., I., Vol. II., para. 338.

Railway
defence
works.

99. The construction of defence works, such as bridge block-houses, etc., on railways, if within a reasonable distance of a M. W. district, will be carried out by the M. W. S., unless the railway administration concerned consider that this course cannot be adopted with safety to the railway.

If the work is undertaken by the railway, the railway engineer, who, if convenient, should be a R. E. officer, will be furnished by the M. W. S. with detailed working drawings. During construction the work should be inspected at least twice by a M. W. S. officer, and on completion finally inspected by the A. C. R. E. who will report to the railway administration his opinion of the work. This report will be recorded with the completion report of the work. During the execution of the work the M. W. S. inspecting officer and the railway officer in charge should be placed in direct communication with each other on all matters connected therewith.

Troop
sidings.

100. Application for the construction of permanent troop sidings and platforms, accompanied by rough estimates of the cost, both initial and recurring, will be submitted to the G. of I. for orders. If sanctioned the work will be carried out by the railway concerned. When the amount of land required is considerable it may be taken up and paid for by the M. W. S. and marked off as military land, otherwise it will be included in the railway land.

Civil Works.

Relations
with civil
officers.

101. M. W. officers should assist civil officers with reports and rough estimates of the cost of any proposals, but detailed estimates and designs should not be prepared for works costing more than the civil officers concerned can sanction.

Procedure
for civil
works.

102. A civil officer will submit a requisition for any work he may require to be done by the M. W. S. If funds are available, and it is within his powers, the A. C. R. E. may, if he concurs, sanction the estimate, the signature of the civil officer to the estimate being considered authority for the work. If a major work is required, the estimate will be submitted to the D. G. M. W., who will refer it to the head of the department or local Government concerned or submit it to the G. of I. for orders. In the Baluchistan Agency and North-West Frontier Province, provincial civil works will be dealt with by the C. R. E. under the orders of the local administration.

G. Os. C. Divns. and Bdes. are not concerned with the administration of civil works funds or civil works executed by the agency of the M. W. S., which are dealt with by the officers of the M. W. S., under P. W. D. Code rules.

In the case of works connected with ecclesiastical buildings, special rules are laid down in P. W. D. Code, Volume III, Appendix 10, on the subject of the sanction required for various classes of these works.

The powers of the officers of the M. W. S. in regard to civil works estimates and excesses thereon, are regulated in accordance with P. W. D. Code rules, the C. R. E. corresponding to the rank of Superintending Engineer, A. C. R. E. to that of an Executive Engineer, and G. E. to that of an Assistant Engineer.

124. The renewal and repair of stables of the earthen floors of the stables and hospitals, and the renewal of the earthen floors of the stables and non-silladar cavalry units, will be generally executed in dry weather. The renewal of stables, and the renewal and repair of British units and non-silladar cavalry units, will be carried out under the rules in A. R. 125. The special renewal of earth disinfection of stables after an outbreak of will be carried out under the rules in A. R.

125. Government wells in cantonment the M. W. S., and those on established the orders of the local Government.

The cost of cleaning wells at establishments forms a charge against Provincial funds.

Stores.

126. Stores must be counted at least once a month that effect given on the registers for the stores must be counted by an officer.

127. The rules regarding stock apply to

128. All surplus stores not likely to be should be reported to the A. C. R. E. for should be entered at once on a survey orders of the A. C. R. E.

Division.	M. Branch.	W. Divl. C.	R. Es.	A. C. R. Es.	G. Es.	Total.	Stations.	REMARKS.
(Poona) Divn.	...	1	...	...	...	...	.....	Administrative officer.
	1	...	...	...	Poona, Kirkee, Belgaum.	
	1	...	...	...	Ahmednagar, Aurangabad.	
	1	...	...	...	Bombay, Deolali, Khandala.	
(Meerut) Divn.	...	1	...	...	...	...	.....	Administrative officer.
	1	...	...	...	Dehra Dun, Chakrata, Roor- kee, Lansdowne, Kailana, Saharunpur, Landour.	
	1	...	...	...	Meerut, Delhi, Agra, Muttra, Fatehgarh.	
	1	...	...	...	Bareilly, Ranikhet, Chau- battia, Almora, Shahjehan- pore, Naini Tal, Bhim Tal.	
(Lucknow) Divn.	...	1	...	...	...	...	.....	Administrative officer.
	1	...	...	...	Lucknow, Fyzabad.	
	1	...	...	...	Allahabad, Cawnpore, Bena- res.	Note.—Sikkim and Shil- long are administered by the local Govern- ments concerned.
	1	...	...	...	Fort William, Alipore, Dar- jeeling, Dinapore.	
	1	...	...	...	Barrackpore, Dum-Dum, Ishapore, Cossipore.	
(Secundera- bad) Divn.	...	1	...	...	...	...	.....	Administrative officer.
	1	...	...	...	Secunderabad and Bolarum.	
	1	...	...	...	Bangalore, Bellary	
	1	...	...	...	Madras, St. Thomas' Mount, Wellington, Ootacamund, Lovedale, Coonoor, Cannan- nore, Calicut, Malapuram and Trichinopoly.	
Aden Bde.	1	1	1	2	Aden	Administered directly under the D. G. M. W. The M. W. S. have charge of civil works also.
Burma Divn.	1	1	1	Rangoon River Defences	Administered directly un- der the D. G. M. W. The other Military Works in Burma are ad- ministered by the local Government.
TOTAL	114	Officers.	
Allowance for fur- lough, deputa- tion, etc.	20		
GRAND TOTAL	143	Officers.	

TABLE I.

Office establishment of the D. G. M. W.

Post.	Authorised scale.	Pay.	Authority who appoints or promotes.	REMARKS.	
		Rs.			
Chief clerk	1	600	D. G. M. W.		
Superintendent	1	500			
"	1	400			
1st Division.					
Assistant	1	350			
"	1	300			
Assistants	2	250			
"	2	200			
"	2	170			
"	2	140			
2nd Division.					
Clerk	1	200			
"	1	180			
"	1	160			
"	1	120			
Clerks	2	100			
"	3	80			
"	3	70			
"	3	60			
"	3	50			
"	3	40			
Drughtsman	1	150			
"	1	120			
"	1	100			
"	1	80			
Duffries	3	10—24*			
Jemadar	1	12—15			
Peons	2	10			
"	3	9			
"	6	8			

* Rising by biennial increments of Rs.

* Rising by biennial increments of Rs.

TABLE II.

Office establishment of the Divisional and District offices of the M. W. S.

Post.	Authorised scale.	Pay.	Authority who appoints or promotes.	REMARKS.
		Rs.		
Clerks	3	250	D. G. M. W.	
"	4	200		
"	5	150		
"	10	125	C. R. E.	
"	18	100		
"	20	80		
"	22	70		
"	33	60		
"	42	50		
"	55	40		
"	62	30		

2. Subordinate Establishments.

Upper subordinates.

Grade.	Scale.	Staff salary.	Consolidated salary.	Authority who appoints and promotes.	REMARKS.
		Rs.	Rs.		
Sub-engineers, 1st grade	8	250	400	D.G.M.W.	(a) Must hold sub-engineer's certificate from T.C.E. College, or possess "special and superior qualifications" before promotion to this grade.
" " 2nd "	7	200	300	"	
" " 3rd " (a)	14	150	250	"	
Supervisors, 1st	18	120	200	"	
" 2nd "	30	100	150	"	Only temporary appointments are made in these grades in the M.W.S.
Overseers, 1st grade	75	85	100	"	
" 2nd " . . . . .	...	...	80	"	
" 3rd " . . . . .	...	...	60	"	

NOTES—1.—Proportion of various grades to established scale :—

Three-sixteenths (adding one for a fraction) of total number are sub-engineers, of whom half belong to 3rd grade, one quarter to 2nd grade, remainder 1st grade.

Five-sixteenths (adding one for a fraction) are supervisors, of whom three-eighths (adding one for a half or more) are 1st grade, the remainder 2nd grade. All the rest are overseers, 1st grade.

2.—When the total pay, allowances and staff salary of a British military upper subordinate are less than the consolidated pay of the grade he holds, he will receive the consolidated rate of pay.

3.—Native soldiers appointed upper subordinates will draw consolidated rates of pay.

4.—Civilian sub-engineers, 1st grade, after 5 years' excellent service in that grade, if specially recommended, may be granted by the D.G. M. W. an increment of Rs. 50 a month, and a further increment of Rs. 50 a month after 10 years such service.

5.—A warrant officer who receives a commission on the U. L. will, as a rule, be promoted by the G. of I., if he be a sub-engineer, 1st grade, to the rank of assistant engineer, 2nd grade; if of any lower grade, to assistant engineer, 3rd grade. He will draw the pay and count against the scale of his grade as an upper subordinate. He must elect definitely whether he will draw travelling allowance as an assistant engineer or a sub-engineer; except that if he choose the former, he may, when serving at a presidency town, draw the allowances of a sub-engineer.

6.—Similarly 6 per cent. of the civil upper subordinates (adding one for a fraction) may be given by the D. G. M. W. the honorary rank of assistant engineer, provided they are sub-engineers, under the same rules regarding pay and allowances as in the previous note.

NOTE 7.—Gazetted rank will be conferred on civilian sub-engineers of the 1st and 2nd grades.

Barrack Department.

Class.	Scale.	Pay.	Authority who appoints or promotes.	REMARKS.
<i>Barrack Masters.</i>		Vol. I.		
Commissary	1	As in A. R., I, Vol. I.	D. G. M. W.	
Deputy Commissary	2		"	
Assistant Commissary	3		"	
Conductors	12		"	
<i>Assistant Barrack Masters.</i>				
Sub-Conductors	21		"	
<i>Barrack Serjeants.</i>				
Staff Serjeants and Serjeants	58		"	

NOTE 1.—The above sanctioned scale cannot be fully brought into force until certain members of the old Madras Barrack Department have retired.

NOTE 2.—Members of the old Madras Barrack Department receive departmental rank on the following scale :—

Barrack Masters, 1st class	5
" 2nd "	1
" Serjeants	19

Lower subordinates.

Grade.	PAY.				Authority who appoints.
	Scale.	Minimum.	Quinquennial increment.	Maximum.	
Sub-overseers, 1st grade	67	{ 50 45*	10	{ 70 65*	D. G. M. W.
" " 2nd "	71	{ 35 32*	5	{ 45 42*	C. R. E. of Divn.
" " 3rd "	43	{ 30 28*	5	{ 35 33*	"
TOTAL	181				

* If unable to keep accounts in English.

NOTE 1.—The D. G. M. W. may sanction a small increase of pay to a deserving sub-overseer instead of promoting him.

NOTE 2.—For special service and on special recommendation the D. G. M. W. may sanction an extra increment of Rs. 10 to a man who has been 15 years in the 1st grade and 20 years in the department, and a second extra increment of Rs. 10 after a further service of 5 years.

NOTE 3.—The maximum average pay of all sub-overseers in the M. W. S. must not exceed Rs. 50.

Appendix V.

Accommodation authorized for troops and departments.

Officers and Subordinates.

1. The provision of officers' quarters and mess houses at presidency towns, in Officers' forts and foreign territories requires the sanction of the Government of India; quarters. in all other cases the previous sanction of the Secretary of State is necessary. They should be designed so that the authorized totals of plinth area and floor area of the main rooms shall not be exceeded, and that the rent assessed under rule shall not exceed the maximum recoverable from an officer of the rank for which the quarter was designed. Each quarter shall be classed as suitable for an officer of a certain rank, and whether for a married or a single officer. A quarter for a junior married officer (*i.e.*, an officer below field rank) shall be generally so designed as to be suitable for two single officers of the same rank. The scale of quarters laid down for married captains and lieutenants is not the recognised authorized scale, and officers occupying these will pay an increased rent.

In the case of regiments sending large detachments to the hills, the alternative scale of quarters for single captains and lieutenants in the plains given in items 3 (ii) and 4 (ii) would be suitable. Two rooms of the size given should be allotted to an officer during the summer, and only one room during the winter. The question as to the extent to which the alternative scale is applicable will be settled on the merits of each case.

2. In the case of quarters for officers of British Cavalry regiments and batteries of R. H. A., two stalls per quarter in addition to the number authorized under items 1 to 4 may be provided, when new quarters are built, subject to the payment of rent as laid down in A. R., I., Vol. III.

Table showing the number of officers' quarters to be provided for the various units and for the staff, etc.

UNITS.	NUMBER OF QUARTERS TO BE BUILT.					
	Lieutenant-colonels.	MAJORS.		Captains (single).	Lieutenants (single).	Junior married officers.
		Married.	Single.			
British cavalry regiment	1	2	1	3	8	5
R. H. A. and R. F. A.—						
8 batteries and brigade staff	1	2	1	2	5	4
2 " " " "	1	2	...	2	3	2
1 battery " " " "	...	1	...	...	2	1
R. F. A. ammun. column	...	...	...	...	2	1

Appendix III.
Scales of reserve furniture.
To be maintained by the M. W. S.

ARTICLES.	PERCENTAGE OF FURNITURE TO BE MAINTAINED.	
	Barrack.	Hospital.
Boxes, kit	10	...
Carts, filth and rubbish	25	25
Chairs, barrack	10	...
" cane-bottomed	5	...
Commodos	5	...
Cots, iron trestle	10	...
Forms without backs, 5'	10	...
Punkah fringes	10	5
Punkah pulling ropes, etc.	20	10
Receptacles, filth, large	10	10
" " small	10	10
" " cookhouse, large	10	10
" " " small	10	10
Tables, iron trestle	5	...
" 5' x 2' 10"	5	...
Tables, cook-house	5	...

Appendix IV.

6. Departmental officers with honorary rank, other than those of the I.S.M.D., have no claim to be provided with Government quarters, and usually such quarters will be constructed only (a) in connection with ordnance factories, (b) when private accommodation cannot be procured in reasonable proximity to the place where the officers in question have to work, or (c) in stations where the rents of private houses are very high; subject in all cases to the previous sanction of the G. of I. being obtained. Quarters should not, however, be provided for the leave reserve of assistant surgeons of I. S. M. D. The accommodation for assistant surgeons should be limited to the requirements of the number of subordinates actually required for duty. Departmental officers, all U.L. and I.S.M.D. warrant officers and N. C. officers, and civilian gazetted and non-gazetted officers and subordinates of departments, will be accommodated in quarters of the following classes to which they may be assigned. These classes provide accommodation for married men. When quarters for single men are required half the accommodation only will be given.

Class B (detached).—Commissaries; deputy commissaries; senior assistant surgeons with the honorary rank of captain; and the following civilian gazetted and non-gazetted officers and subordinates of the ordnance department:—

Chemists of the cordite factory; chief mechanical engineers; civil chief master armourers; chief examiners of machine guns; chief foremen plumbers; chief foremen tanners; chief ordnance examiners; chemist of the gun and shell factory, Coimbatore; and principal foremen of factories.

Class B (semi-detached).—Assistant commissaries; senior assistant surgeons with the honorary rank of lieutenant; head overseers of the ordnance department; and the following civilian ordnance gazetted and non-gazetted officers of the ordnance department;

Carriage examiners; chemist and metallurgist; chief draftsmen; chief foremen of fitters and turners; electricians ranking as foremen; foremen; master forgers; mechanical engineers; and ordnance examiners.

Class C (semi-detached).—Civilian mechanics, assistant foremen, and electricians ranking as assistant foremen, in the ordnance department.

Class D (semi-detached).—All U. L. and I.S.M.D. warrant officers; barrack masters, 1st class; and overseers and assistant overseers of the ordnance department.

Class D (built in blocks).—All U. L. non-commissioned officers; soldier mechanics; carnatic artificers employed in factories; cutter, II. and S. workshops, Madras; and civilian leading hands of ordnance factories engaged in England.

Class E.—Leading hands of ordnance factories engaged in India.

Class F (built in blocks).—Apprentices of ordnance factories.

Class G (built in blocks).—Home and Indian Service mechanics of the ordnance department.

7. The provision and maintenance of latrines, and of such furniture and appliances connected therewith, as are ordinarily supplied by the M. W. S., for the use of clerks and Indian establishments of military offices accommodated in buildings borne on the books of, or hired by, the M. W. S., will be carried out by the M. W. S., from military works funds. In the case of military offices located in buildings hired departmentally, the latrines, furniture and appliances will be arranged for by the departments concerned as a charge against the contingent allowances of the offices.

Latrines for office establishments.

British Troops.

8. The establishments of all units are given in the Army Tables.

9. The authorized accommodation per man in dormitories is 90 sq. ft. floor area and 1,440 c. ft. air space; in dining halls it is $12\frac{1}{2}$ to 14 sq. ft. of floor area. Dormitories should usually be 24 ft. wide, to allow for two rows of beds only, and 16 ft. high to the tie beam. Two beds only to be placed between adjoining doors, with 9 inches clear between each bed and the door. Verandahs to be 10 feet wide in the clear; the verandah supports should be posts of wood or stone in place of masonry. Dining halls, with kitchens attached, are provided, in separate buildings. The general arrangements for sitting of barracks are shown in type-plan No. I-B. I. series. All buildings occupied by British troops in the plains double roof coverings, or ceilings under a single roof.

Establishments. Accommodation authorized in the plains.

In cases where barracks have inner verandahs, they may as dormitories, provided that the full superficial and cubic

one si-
give

UNITS.	NUMBER OF QUARTERS TO BE BUILT.					
	Lieutenant-colonels.	MAJORS.		Captains (single).	Lieutenants (single).	Junior married officers.
		Married.	Single.			
Royal garrison artillery—						
3 companies with lieutenant-colonel, adjutant, instructor in gunnery, and inspector of ordnance machinery.	1	2	1	1	6	5
2 companies with lieutenant-colonel and inspector of ordnance machinery . . .	1	2	...	1	3	3
1 company . . .	...	1	...	...	2	1
British mountain batteries—						
3 batteries . . .	1	2	1	3	6	4
2 „ . . .	1	2	...	3	4	2
Indian mountain batteries—						
4 batteries . . .	2	3	...	3	5	5
3 „ . . .	1	3	...	1	4	3
2 „ . . .	1	2	...	...	3	2
1 battery . . .	...	1	...	...	2	1
British infantry—						
1 battalion . . .	1	2	1	3	8	5
Hd. qrs. wing . . .	1	1	1	2	5	3
Detached wing . . .	...	1	1	1	4	2
Indian cavalry regiment . . .	1	1	...	2	2	2
„ infantry battalion . . .	1	1	...	2	2	2
Company of sappers and miners or company of submarine miners . . .	...	...	...	...	1	1
Officers of the staff, R.A.M.C., I.M.S., or departments :—						
Lieutenant-colonels . . .	Full number	...	...	...	...	...
Majors . . .	Full number	Full number	...	...	...	...
{ 1 to 5 . . .	...	6	...	...	...	...
{ 6 to 8 . . .	...	9	...	...	...	...
{ 9 to 13 . . .	...	...	...	...	...	Full number
{ 1 to 4 . . .	...	...	...	...	...	5
Captains . . .	...	...	...	...	...	9
{ 5 to 8 . . .	...	...	...	...	...	2
{ 9 to 13 . . .	...	...	...	...	...	4
Lieutenants . . .	...	...	...	...	...	8
{ 1 to 3 . . .	...	...	...	...	...
{ 4 to 7 . . .	...	...	...	...	...
{ 8 to 12 . . .	...	...	...	...	...

Scale of quarters for departmental officers, warrant and N. C. Os. Construction of quarters for departmental officers, warrant and N. C. Os. and civilian gazetted and non-gazetted officers and subordinates.

3. Quarters have hitherto been constructed for departmental officers, warrant and N. C. Os. on the old scale (see items 14 to 18) and compensation for deficient accommodation will be calculated on this scale until the 1st January 1921, after which the new scale will be brought into force. All new quarters will, in future, be constructed on the new scale (see items 8 to 13).

4. New quarters should, where suitable, be double-storied, and in that case only front and back verandahs would generally be required for the upper storey. All living rooms should be under the main roof, and should have planked ceilings. Subsidiary buildings should be built of an inexpensive type, provided that permanence and moderate expense on repairs are secured.

5. The height of walls of quarters in the plain for departmental officers with honorary rank, warrant and N. C. officers, civilian gazetted and non-gazetted officers, regimental warrant and N. C. officers, staff serjeants and married rank and file, should be as follows :—

Double-storied buildings.—The lower storey to be of the minimum height of 12 feet width, or of 14 feet without clerestory windows.

The upper storey to be of the minimum height of 14 feet.

Single-storied buildings.—The minimum height to be 14 feet with clerestory windows.

in the walls of barracks. Recesses with movable shelves, but without doors, should be provided in the walls of sitting and bed rooms in all quarters.

21. Iron suspension rods for lamps are to be provided in all barracks as Lamp rods. fixtures.

22. The provision of ceiling cloths in all warrant officers', serjeants', and married men's quarters, may be sanctioned by the Divl. Comdr. where considered absolutely necessary. Ceiling cloths.

23. Cook-houses are to be attached to the dining halls. One large cook-house will be built between two company dining halls, but separate Warren's ranges will be provided for each company. The floors should be stone-paved, having a slope into a drain to facilitate washing the floor, this drain should discharge into a receptacle outside the building, sunk as little as possible below the ground. The sink receptacle should also be outside the building and above ground level. Self-closing doors with panels of wire gauze should be provided for all doorways, and wire gauze fixed in the windows in place of glass, if desired by the local authorities. The words "chopping block for firewood" should be painted on the wall over that article. Cook-houses.

24. Each family quarter is to have a separate kitchen. For semi-detached quarters or the end quarters of a block, the cook-houses should be built at the ends of the back verandah. For the intermediate quarters of a block, the cook-houses should be built semi-detached in rear of, and connected by a raised metalled path to, the quarters. They are to be provided with a stove in place of chulas. In the hills the cook-houses may be placed in either of the three positions shown in type-plan No. 10—Hutted Camps, and are to be provided with stoves. Cook-houses for married men.

25. The floors are to be paved or flagged and laid with a slope of 1 in 16 from the wall to a central drain, which will carry away the water (see para. 26). Gratings are to be supplied in private ablution rooms. In old barracks having a drain down the centre of the stone floor of the lavatory, or under the place where the men have to stand in front of the basin stands, gratings may be supplied to cover the drain. Gratings are classed as furniture, and basin stands as fixtures. The private bath-rooms are to have doors with fastenings, and pegs to hang-clothes on. The height of lavatories is to be 9 ft. in case of a pent roof and 12 ft. if the roof is flat. Lavatories.

26. For the removal of waste water from wash-houses, etc., wells, absorption pits or cesspools are dangerous and should not be given. The water should either (i) be collected in catchpits, from which the accumulations must be removed daily and sprinkled on the ground or carried to a distance; or (ii) it should be led away in small masonry drains beyond the precincts of the barracks, with earthen drains in continuation, to convey it to trees or garden plots; if there are no trees conveniently near, they should be planted at a sufficient distance from the barracks to avoid obstructing the ventilation; or gardens may be made and hedges planted in the kutch channels. Waste water drainage.

27. Floors are to be of impermeable material, and to have a skirting all round. It is important that arrangements be made that when the privy pan, which is 8 inches high, is placed in position, it shall be exactly under the opening in the seat and close up against it. Latrines.

28. Latrine accommodation for married serjeants and married rank and file should be provided on the scale of one seat for every five quarters for the men. Commodes are to be provided in the bath-rooms of the quarters for women and children. Scale of latrines for married serjeants and married rank and file.

29. The buildings will usually be of wood framing with open bamboo work attached, reaching to within 1 ft. of the ground. Height to tie beam 7 ft. The gables to be left open, but the eaves to project sufficiently to keep out the sun. The urine trough (which is a fixture) will lead into a filth receptacle at the opposite end of the building to the entrance. A box for dry earth to be provided. Urinaries.

30. Planking need not be given under the roof coverings of servants' quarters and subsidiary buildings in the hills, which are not intended for occupation during the winter. Onthouses in the hills.

31. A shed for storing dry earth may be provided for each battery or company, R. A., for 2 squadrons of a British cavalry regiment, and for each wing of a British infantry battalion, at places where necessary owing to the climate, and where sufficient storage room is not given in the latrines. Dry earth store.

32. Where an officer's mess has been provided in a convenient situation, court-martial and officers' rooms will not, as a rule, be required and the pay office may be attached to the orderly room. Officers' rooms will not be provided, except under special sanction. A 10 ft. verandah should be given at front, back, and one end. Orderly room and offices.

33. Ring bolts should be built into the walls or floors of the quarter guard to which the treasure chest can be fastened. Quarter guard.

exclusive of the space in the unoccupied inner verandahs on the other side of the barracks.

Accommodation authorized in the hills.

10. The hill type of hut for single men should be 22 feet broad with a 6 ft. verandah in the clear in front. Each single man should be provided with 66 sq. ft. of floor area and 660 c. ft. of air space. Dining halls with kitchens attached are provided in separate buildings on the scale of 10 sq. ft. per man. The size of the huts will depend on the sites available, but they should be built to accommodate a whole, half or quarter company each. For married men the huts should be 24½ ft. broad, and divided by partition walls into rooms of sizes authorised for each rank.

Fire places should be given in preference to stoves, and more windows than doors should be provided in the single men's huts, their size and position depending on the climate of the station.

In hill stations in Poona, Mhow and Quetta Divisions (except at Quetta itself), the authorized accommodation is 77 sq. ft. and 1,408 c. ft. per single man.

In the case of auxiliary buildings, the width of the hut should be 20 ft. only, but the design need not be rigidly adhered to, if it can be improved without increasing the floor area or cost of the building.

Double-storied barracks.

11. The ground floors of double-storied barracks are only to be used as dormitories in the Rawalpindi, Lahore and Peshawar Divns. (except at Peshawar), at Bareilly, Ranikhet, Naini Tal, Shahjehanpore, Roorkee, Chakrata, Meerut, Muttra, Delhi, Landour, Lucknow, Fyzabad, Cawnpore, Fatehgarh, Sitapore, and in Secunderabad (R. A. lines); if similar permission is required elsewhere, special application must be made. In the hills the lower floors may be used as dormitories, but they should be well raised above ground level, and ventilation should be given through the basement. Staircases should usually be given in the back verandahs, not in the transept. Unenclosed night urinals, but not night closets, may be allowed in the upper verandahs, and a sweeper's staircase should be given.

Sites for barracks in the hills.

12. The best sites are those on the summit levels. When a barrack is constructed on a terrace cut out in the hill side, care should be taken to cut off the drainage of the higher ground from the site of the barrack, and no part of the barrack should be nearer the face of the slope than 25 feet. The building should, if possible, be at right angles and not parallel to the slope.

Band barracks.

13. The band are to have a separate barrack equal in size to that of a half company or quarter-squadron, and, in this case, no special provision is necessary for a band practice room.

Serjeants' quarters.

14. Quarters for single serjeants should be placed at the ends of single men's barracks. In the hills, a quarter should be attached to every hut in which the number of men exceeds 18, or to every two huts of 12 each. Whichever hut type is selected the verandah in front of the serjeant's quarter will be an open one.

Barrack store-rooms.

15. A small store-room, about 10 ft., by 8 ft., should be given at the end of each company or half company barrack for the arms and kit of men in hospital, company stores, etc.

Scale of family quarters.

16. Family quarters will be provided on the following scale :—

In the R. A. for 50 per cent. of the staff serjeants and serjeants, and 4 per cent. of the rank and file.

In British cavalry for 40 per cent. of the staff serjeants and serjeants and 3 per cent. of the rank and file.

In British infantry for 36 per cent. of the staff serjeants and serjeants and 1·25 per cent. of the rank and file.

Quarters will be constructed in sets, each set consisting of six rooms capable of sub-division, so as to provide accommodation either for two married men with moderate sized families, or one married man with a large family and another with a small family or no children. Where provision has to be made for an uneven number of quarters, the odd quarter will consist of two rooms, each 16' × 13' in the plains, and 12' × 12' in the hills.

Design of family quarters.

17. For married quarters, single storied buildings should usually be provided, on well raised plinths, partition walls between quarters to be carried to the roof, covered passages should connect with the out-offices, but their sides should be left open; front verandahs to be 12 ft. wide, and end and back verandahs 10 ft. wide in the clear; where the verandahs are more than 2 ft. above the ground, railings should be given.

Schoolmasters and schoolmistresses.

18. Schoolmasters and schoolmistresses are entitled to quarters in detached buildings, except as laid down in para. 93, but their quarters should, if possible, be provided under the same roofs as their schools.

Fire-places. Arm racks. Pegs and shelves.

19. Fire-places will be provided in stations where fuel is authorized.

20. Arm racks are to be provided in all barracks, and a shelf and two pegs for the kit of each man. Cupboards with shelves and folding doors should be given

60. The construction of a number of very small buildings for sick accommodation is objectionable and 50 to 60 sick may be placed in the same building, provided it is suitably designed and ventilated. Double-storied buildings are not necessary; in damp climate the plinths of single-storied buildings should be sufficiently raised to ensure protection against the damp. In addition to large wards for ordinary cases (which in stations where the winter is severe, should not exceed the size required for 12 beds) a number of small wards for 2 to 4 beds should be provided for the treatment of special cases; one of these latter will be specially appropriated and coloured orange for ophthalmic cases. Serjeants will be treated in a separate ward. As a rule attendants' rooms should be placed between the main wards and the small ones for special cases, and an attendant's room should invariably be given next to the lunatics' ward. One small ward will be fitted with grated doors and windows as a ward for soldiers under detention. At stations for which lady nurses are authorized, a small ward, with bathroom attached, should be provided for their convenience whilst on duty. Hospital attendants should be provided with quarters near the hospital on the following scale:—

Hospital under	100 beds—	nil.			
"	100 to 125	"	for	10	attendants.
"	126 to 150	"	"	12	"
"	151 to 250	"	"	14	"
"	251 and upwards	"	"	16	"

A dormitory and detached dining hall (with kitchen) of authorised sizes (see paragraphs 9 and 10) should be given, the former being divided into two rooms so as to give separate accommodation for men on night duty.

61. An attendant's duty room should be provided in each hospital block on the following scale:—

	In the plains.	In the hills.
For block containing up to 20 beds	12' x 24'	12' x 20'
For block containing over 20 beds	16' x 24'	16' x 20'

62. The authorised accommodation for soldiers' families is as follows:—

For	100 to	under	250 troops	3 beds in 1 general ward and	2 beds in 1 lying-in-ward.	Family hospitals.
"	250	"	500	"	4	"
"	500	"	1,000	"	6	"
"	1,000	"	1,500	"	6	"
"	1,500	"	2,000	"	8	"
"	2,000 and over	"	"	"	8	"

At sanatoria 50 per cent. extra on the above scale.

In small stations, where there are very few women and children, it will not be necessary to provide a separate family hospital; if necessary, a ward in the men's hospital may be set aside for this purpose.

The rules regarding the provision of hospitals for men are generally applicable to family hospitals.

Accommodation for one matron only should be provided in every family hospital.

63. Fireplaces should be provided in all wards, where there is a possibility of their being required, in the proportion of one to each small and two to each large ward; extra space in the room is not to be given, but they will be built in the wall spaces with no projections, so that the openings may be covered and the wall spaces used when required. If fireplaces have not been given in places where fuel is allowed, stoves may be provided as fixtures (see T. P.-1—Miscellaneous series).

64. Cupboards with sliding shelves and folding doors should be given in the day-rooms and attendants' rooms; shelves will be given in the lamp rooms, and in one or two compartments at the end of one of the latrines, for bottles of injections, etc. Fanlights are to be given over the doors of wards.

65. Special accommodation for officers has been sanctioned at certain stations as laid down in Army Tables, Medical. No scale has been fixed, but for one or two officers a ward about 15' x 24', and for three to four officers a ward about 28' x 24' should suffice; a bathroom should be given to each ward.

66. Operating rooms are authorized for hospitals of British troops in certain stations only. Existing accommodation may be adapted for this purpose or separate buildings constructed. In hot stations it may be better for the rooms to form part of the main hospital block. For list of authorized aseptic furniture for 1st and 2nd class operating rooms see Army Tables, Medical, Section IV, Table XVIII.

67. Separate hospitals for contagious diseases are not authorized, as single-storied hospitals, constructed according to the type plans, offer the necessary facilities for isolation and segregation in the small wards. If considered necessary, the special accommodation required must be sanctioned by the G. of I., the question whether one central hospital or separate hut wards in each hospital should be

Railway rest
barracks.

55. When rest barracks are built, it is usual to provide for 6 officers, 8 N. C. Os., 176 single rank and file and 20 families. Separate dining-room space is not required as the men can mess in the verandahs. A lavatory giving sufficient room for 50 basins should be provided. Quarters for a warrant officer, a transport sergeant, and a S. and T. agent ($12' \times 12' \times 10\frac{1}{2}'$) with store-room (dry-store $12' \times 12' \times 10\frac{1}{2}'$) and liquor store ($25\frac{1}{2}' \times 12' \times 10\frac{1}{2}'$) will be necessary. A troop platform and siding will usually be required. The barracks should be enclosed by a fence, and the troop platform be cut off from the station premises by a substantial fence.

Veterinary
hospital.

56. One of the loose boxes in the station veterinary hospital should be arranged for horses suffering from colic. Planks at a slope of 1 in 4 should be provided on all sides to a height of 3', the corners being rounded. When required one of the loose boxes can be coloured black for the treatment of eye cases.

Irrigation stands and hard for veterinary hospitals should be formed by making the floors of one end stall and one sling box pucca. A pipe water-supply should be laid on, or a tank to hold 50 gallons and raised 10 feet should be provided.

A liberty paddock not exceeding 200 feet \times 150 feet, divided by a fence into two portions and enclosed with wooden posts, rails and gates is authorised for all 1st class station veterinary hospitals.

British Hospitals.

Scale of Hos-
pital accom-
modation
for British
troops.

57. Station hospitals are provided for all the British troops at a station, sections of the station hospital being constructed, if considered necessary, for distant units.

Hospital accommodation will be provided on the following scale, on the authorised strength of British corps:—

At 4 per cent.—Rawalpindi.

At 5 per cent.—Ghazial, Khanpur, Ghora Dhaka, Sialkot, Solon and Meerut.

At 6 per cent.—Barian, Khyra Gali, Dagshai, Jutogh, Ranikhet, Chaubuttia, and Lucknow.

At 7 per cent.—Campbellpore, Attock, Kuldana, Kalabagh, Bara Gali, Multan, Jullundur, Hyderabad (Sind), Mhow, Indore, Kamptee, Sitabuldi, Neemuch, Nowgong, Poonah, Kirkee, Ahmednagar, Belgaum, Chakrata, Dam Dam, Barrackpore, Dinapore, Darjeeling, Fyzabad, Maymyo, Shwabo, Bhamo, and Thayetmyo.

At 8 per cent.—Chera, Ambali, Jhansi, Muttra, Rurki, Fort William, Fort Fulta, Fort Chingri Khal, Lebong, Allahabad, Benares, Cawnpore, Secunderabad, Bellary, Ramandioog, Bangalore, St. Thomas Mount, Cannanore, Calicut, Malapuram, Rangoon, and Port Blair.

At 9 per cent.—Nowshera, Lahore Cantonment, Fort Lahore, Quetta, Nasirabad, Taragarh, Deolali, Aden, Baroilly, Mandalay and Meiktila.

At 10 per cent.—Ferozepore, Amritsar, Jubbulpore, Delhi and Agra.

At 12 per cent.—Peshawar, Karachi, Purandhar, Bombay and Wellington.

At the following stations, hospital accommodation will be provided on a special scale:—

Murree, Upper and Lower Topa, Dalhousie, Kasauli, Subathu, Mount Abu, Pachmahi, Khandala, Landour, Naini-Tal, Madras and Poonamallee.

At Poesa and Saugor, 6 and 3 beds, respectively, are authorised.

Except in the case of (i) sick officers, where special accommodation has been authorised for them and (ii) sick prisoners from military prisons, the authorised scale includes provision for:—

(i) Commissioned and warrant officers, (ii) men on the unattached list, (iii) sick prisoners from garrison and regimental provost prisons, (iv) lunatics, (v) special cases, (vi) ophthalmic cases, (vii) cases of contagious and infectious diseases.

At stations where there are military prisons, special provision for sick prisoners on the authorised scale will be made either in the prison itself or in the station hospital.

Accommoda-
tion for sick
in the
plains.

58. The authorised allowance per man is 120 sq. ft. of floor area and 2,160 c. ft. of air space. This is usually given in wards 24 ft. broad and 18 ft. high, allowing 10 running feet for every two beds. Not more than two beds should be given between the doors on each side, and the doors should equal at least half the number of beds in the ward. The cot spaces should be numbered serially (on metal tickets screwed to the walls), and for every cot two pegs are to be given. In small wards for special cases the floor area should be increased to 150 to 200 sq. ft. Unless there is ample spare space existing, dining rooms are not allowed in addition to day-rooms.

Accommoda-
tion for sick
in the hills.

59. The minimum area per head authorised is 102 sq. ft. and the hill hut type of construction is considered suitable; this gives 1,020 c. ft. of air space per man. A verandah to be given at the back as well as the front. The rules for hospitals in the plains are generally applicable to those in the hills and hutted camps.

be provided; and the floor must be of close-joined wood secured with copper nails or wooden pegs. A cupboard for tools should be given. Every metal article used should be of copper, brass or gun-metal. There should be raised wooden platforms without iron rails, between the buildings; and a light tramway connecting the laboratories with the magazine or with the entrance gate.

78. Storage room for mobilization equipment is authorized, but new buildings require the sanction of the G. of I. Mobilization equipment.

79. Trees are to be planted near barracks for British troops, but they should not be so placed as to intercept the prevailing wind. Lines of trees should be not less than 50 yards from the barracks and a second row may be planted at not less than 30 feet from the first. The cost of planting and maintaining trees will be borne by cantonment funds but the work should be carried out in communication with the M. W. or P. W. D. officers. Trees.

80. Incinerators are only charged against M. W. funds when provided as a part of the veterinary hospital of a remount depot. Incinerators.

The provision of an incinerator, with platform for post-mortem examination purposes at each of the marginally noted stations, for the disposal of the carcasses of animals that die, or are destroyed, on account of contagious disease, is authorised as a charge against the Military Works grant. Nowshera, Risalpur, Hyderabad (Sind), Lucknow, Jhansi, Jabbalpur, Mhow, Neemuch.

It is however desirable that the platform should be situated close to the crematorium and not in the station veterinary hospital. Flagstaffs.

81. Fixed flagstaffs are authorised on the following proportion:—

- 1 per Army Commander.
- 1 per divisional and brigade headquarters.
- 1 per arsenal.
- 1 per inland and frontier fort or post held by regular troops.
- 1 each for the Army Clothing factories at Alipore and Madras.
- 1 at Bombay for the Naval C-in-C.
- 1 at Delhi Fort (additional).
- 1 on the Ridge, Delhi.
- 1 at the Staff College, Quetta.
- 1 at Rangoon for signalling purposes.

82. Biggs' pattern arm racks are authorised and should be provided as fixtures for all British troops, Military prisons, detention barracks, and for Indian troops where armories are not provided, vide item 176. Arm racks.

83. The following grass and dairy farm buildings will be constructed by the M. W. S. or P. W. D. but maintained by farm agency, except pipe water supplies which will be maintained by the M. W. S. or P. W. D.— Farms.

Dairies and offices.

Store-godowns.

European subordinates' quarters.

Water supply, including pukka wells.

Metalled roads.

If buildings other than those specified above are to be constructed by the M. W. S. or P. W. D., funds will be transferred from army estimates for the purpose.

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
OFFICERS' QUARTERS.							
1	LIEUTENANT-COLONEL'S QUARTER.						
	(i) <i>In the plains.</i>						
	House, consisting of—						
	2 sitting-rooms, each	24	16	16	5,453	A porch 15' x 15' (232 sq. ft.) in front and 10' verandah in the clear all round, containing 2 dressing-rooms each 15' x 8½', a pantry 12' x 8½', and 6 bath-rooms 7' x 8½' or 6' x 8½'. The authorised area of the rooms under the main roof is 1,840 sq. ft.	
	Hall	8	16	...			
	2 bed-rooms, each	18	16	16			
	2 ditto	16	15½	16			
	(a) Cook-house, etc.						
	Block containing—						
	Kitchen	13	8	9	855	A verandah 7½' wide along the front with a fuel store 6' x 6' in it connecting by a covered passage 24' x 6' with the pantry (156 sq. ft.)	
	Store-room	12	8	9			
	Lamp-room	6	8	9			
	Store-room	6	8	9			

provided, being decided by the Divl. Comdr. on local considerations. When sanctioned, wards should be constructed for two patients, each giving about 150 sq. ft. and 2,700 c. ft. per patient, with a bathroom in the verandah to each ward, and verandahs 8 ft. wide on three sides. Subsidiary buildings necessary to ensure isolation, *viz.* Indian attendants' quarters, cook-house, and latrine, should be constructed either of permanent or temporary character to accord with the ward itself, and on such scale as may be considered necessary.

Wire gauze doors and windows.

68. Wire gauze self-closing doors and wire gauze coverings for window openings are authorized for all hospital wards and cook-houses, and for the cook-houses of British troops: they may also be provided, at the discretion of sanctioning officers, for other buildings such as bakeries, slaughter-houses, etc.

Departmental followers' hospitals.

69. Hospitals for departmental followers are authorized at the following stations, the scale having been decided in each case by the G. of I. :—

Lucknow Divn. and Assam—Calcutta, Cawnpore, Dakhinsore, Dum-Dum, Ichapore, Shillong.

Aden Bde., Mhow, Quetta and Poona Divns.—Aden, Karachi, Mhow, Neemuch, Poona, Quetta.

Secunderabad Division—Bangalore, Hoour, Secunderabad.

Burma Division—Bhamo, Mandalay, Meiktila, Rangoon, Shwebo.

Indian Troops.

Establishments. Authorized accommodation for combatants.

70. The establishments of all units are given in the Army Tables.

71. The authorized accommodation per man in living rooms is :—

IN THE PLAINS.		IN THE HILLS.	
Floor area.	Cubic space.	Floor area.	Cubic space.

(i) Indian cavalry.

Risaldar Major, Risaldars and Risaldars.	408	5,608	408	3,672
Jemadars.	300	4,050	300	2,700
Married sowars and married N. C. Os.	150	2,025	100	1,200
Single N. C. Os. and single sowars.	60	810	50	600

(ii) Other units.

Indian officers.	300	4,050	300	2,700
Married N. C. Os. and married soldiers.	144	1,944	100	1,200
Single N. C. Os.	111	1,499	80	960
Single soldiers.	60	810	50	600

Authorized accommodation for followers. Intermediate scale.

72. The authorized public followers are entitled to accommodation as allowed for married followers.

73. At stations of intermediate altitude, *e. g.*, Quetta, Abbottabad, etc., accommodation should be provided on a scale intermediate between the scale for the plains and for the hills.

Buildings for sappers and miners.

74. The construction and maintenance of all buildings required by sappers and miners for their professional duties, such as stores, instructional schools, workshops, etc., devolves upon the M. W. S. or P. W. D., but all additional buildings leading to future increased cost of maintenance require the sanction of the G. of I.

Punkah coolies' shelters.

75. Inexpensive shelters should be made for punkah coolies, where they have to work in exposed positions.

Religious teachers' and schoolmasters' quarters.

75-A. Religious teachers and schoolmasters should be provided with quarters on the same scale as married combatants.

Latrines.

75-B. For regulations for construction and repair of latrines, see A. R., I., Vol. II, para. 433.

Miscellaneous.

Encamping grounds.

76. Encamping grounds are provided along frequented routes, the cost of land being debitable to the military estimates and other charges to M. W. funds; they should be maintained by the M. W. S. or P. W. D. as may be most convenient in each case. A covered-in well, with a masonry watering trough for animals, must be provided, and *bardasht-khanas* will also be necessary when there is no town or large bazar in the vicinity. A portion of the ground 30' x 30' should be reserved as a cemetery but not enclosed until required.

Danger buildings.

77. These should consist of small buildings well isolated and protected from each other by walls or traverses; they should have either very strong walls and a light noninflammable roof, or very slight walls and roof; in the latter case solid traverses must be given. Doors and windows should open outwards; ceilings must

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
		Ft.	Ft.	Ft.	Sq. Ft.		
2	MAJOR'S QUARTER— <i>contd.</i>						
	(ii) <i>Single man, in the plains—contd.</i>						
	(f) Servants' quarters— 6, each	12	10	9	956		
	(g) Coach-house and stables	as	in	(i)	465		
	(iii) <i>Married man, in the hills.</i>						
	Double-storied house—						
	Drawing-room	16	14	12	D.S. part 1,141, S.S. part 476.	6' verandah on 2 sides with a porch at the corner. Hall 12' × 12' and staircase in front partly in the verandah. The single-storied part also includes a covered passage 12' × 4' leading to the kitchen from the pantry. The authorized area of rooms under the main roof is 1,080 sq. ft.	
	Dining-room	14	14	12			
	Bed-room	12	10	12			
	Bath-room	10	6	12			
	Pantry	7½	6	12			
	Store-room	6	6	12			
	Bed-room	16	14	10			
	Ditto	14	14	10			
	Dressing-room	12	10	10			
	Ditto	7½	6	10			
	Bath-room	6	10	10			
	Ditto	6	6	10			
	(a) Cook-house—						
	Kitchen	10	8	9	310	With a verandah 4' wide in front.	
	Fuel store	5	8	9			
	(f) Servants' quarters— 8, each	10	8	8			
	(g) Stables 2, stalls each	6	10	9	279	With a 4' passage in front.	
	(iv) <i>Single man, in the hills.</i>						
	Detached or semi-detached—						
	Sitting-room	16	16	12	1,536	The authorized area of rooms under the main roof is 620 sq. ft. 7½' verandah on 3 sides containing 2 bath-rooms 6' × 8' and a store-room 6' × 9', a porch 5' × 3' outside the back room.	
	Bed-room	16	14	12			
	Dressing-room	14	10	12			
	(a) Cook-house	6	8	9	109		
	(b) Officers' latrine	as in	(ii)	(b)			
	(f) Servants' quarters— 6 each	10	8	8			
	(g) Stable, 1 stall	6	10	9	171	With a 4' passage in front.	
3.	CAPTAIN'S QUARTER.						
	(i) <i>Married man, in the plains.</i>						
	Block containing—						
	2 sitting-rooms, each	20	16	16	3,899	An 8½' verandah all round containing 2 dressing-rooms, 7' × 12', a pantry, 9½' × 8', 2 bath-rooms, and a store-room, each 7' × 7', 2 bath-rooms each 5½' × 7'. The authorised area of rooms under the main roof is 1,440 sq. ft.	
	Hall	6	16	16			
	Bed-room	18	16	16			
	2 ditto, each	16	16	16			
	(a) Cook-house, as for a major	see	2(r).	(a)	586		
	(f) Servants' quarters, as for a single major.	see	2	(ii)	(f) 95		
	(g) Coach-house and stables—						
	Coach-house	9	12	9			
	Stalls, each	8	12	9			
	(ii) <i>Single man, in the plains.</i>						
	Semi-detached block containing 2 quarters—						
	2 sitting rooms, each	20	18	16			
	2 bed-rooms, each	18	16	16			
	Or						
						To hold two vehicles. One for each authorised charger, and one spare, with a minimum of two stalls. See para. 2. The authorized area of rooms under the main roof is 648 sq. ft. per captain. 10' verandah all round with 2 bath-rooms, 8' × 8½' and 2 store-rooms, 12' × 8½' in it.	

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
		Ft.	Ft.	Ft.	Sq. Ft.		
1	LIEUTENANT-COLONEL'S QUARTER— <i>contd.</i>						
	(f) Servants' quarters—12, each	12	10	9	1,592		
	(g) Coach-house and stables—						
	Coach-house	9	12	9	}	To hold 2 vehicles. One for each authorized charger and two spare. See para. 2.	
	Stalls, each	8	12	9			
	(ii) <i>In the hills.</i>						
	Double-storied house—						
	2 sitting-rooms, each	17	16	13	}	The area of the rooms under the main roof is 1,520 sq. ft.	
	Hall and staircase	18	8	13			
	Bed-room	17	14	13			
	Bath and store-rooms, each	9	4½	13	}	The single-storied part includes a porch, 10' × 10', a 6' verandah in front, 2 bay windows, and a covered passage 36' × 6' to the cook-house. On the upper floor there is a sweeper's passage and staircase 87' × 3'.	
	Pantry	9	5½	13			
	2 bed-rooms, each	18	16	11	}	D. S. part	
	1 ditto	11	15	11			
	Dressing-room	10½	7½	11	}	S. S. part	
	Ditto	11½	9½	11			
	2 bath-rooms, each	6½	7½	11	}	655	
	1 ditto	5½	9½	11			
	1 ditto	5½	6	11	}		
	1 ditto	4	7	11			
	(a) Cook-house, etc.—						
	Block containing—						
	Kitchen	12	10	8	}	367	
	Fuel store	6	10	8			
	Lamp-room	6	6	8			
	(f) Servants' quarters—						
	2 Blocks, each of 5 quarters, each	10	8	8	...		
	(g) Stalls 2, each	6	10	9	279	With a 4' passage in front. See para. 2.	
2	MAJOR'S QUARTER.						
	(i) <i>Married man, in the plains.</i>						
	2 sitting-rooms, each	18	20	16	}	A porch 15' × 15' (232 sq. ft.) in front and a verandah 10' in the clear all round, containing 1 dressing-room 18' × 8½', and 1 dressing-room 13' × 8½', a pantry 10' × 8½', 2 bath-rooms 8½' × 8½', one 8' × 8½' and one 6' × 8½'. The authorized area of rooms under the main roof is 1,512 sq. ft. A verandah 6' wide in front, with a fuel store 4½' × 4½' in it, connecting by a covered passage 15' × 6' with the pantry (97 sq. ft.)	
	Hall	8	20	16			
	Bed-room	16	18	16			
	Ditto	15	18	16			
	Ditto	13	18	16			
	(a) Cook-house, etc.—						
	Kitchen	13	8	9	}	586	
	Lamp-room	6	8	9			
	Store	8	8	9			
	(f) Servants' quarters—8, each	12	1	9	1,268		
	(g) Coach-house and stable—						
	Coach-house	9	12	9		To hold 2 vehicles. One for each authorized charger and one spare. See para. 2.	
	Stalls, each	8	12	9			
	(ii) <i>Single man, in the plains.</i>						
	Sitting-room	18	16	16	}	Verandah 10' on 2 sides and 8' on 2 sides with 1 store and 1 bath-room, each 8½' × 8', and 1 store and 1 bath-room, each 6½' × 7'. The authorised area of rooms under the main roof is 1,120 sq. ft.	
	Ditto	24	12	16			
	Bed-room	20	18	16			
	Dressing-room	12	20	16			
	(a) Cook-house—						
	Kitchen	8	10	9	143	One between 2 officers (single).	
	(b) Latrine for officers (1 seat)	4	3	...	40		

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
4	LIEUTENANT'S QUARTERS —contd.	Ft.	Ft.	Ft.	Sq. Ft.		
	(ii) <i>Single man in the plains</i> —contd.						
	(a) Cook-house— As for a single major.	see	2(ii)	(a)	143	Between 4 officers.	
	(b) Officers' latrine, (2 seats)	4	6	...	60	Ditto.	
	(f) Servants' quarters— 16, each	12	10	9	2,517	Four quarters for each officer.	
	(g) Coach-house and stables— 2 coach-houses, each	9	12	9	...	1 for 2 officers.	
	Stalls, each	8	12	9	...	One for each authorized charger and one spare for each officer. See para. 2.	
	(iii) <i>Married man, in the hills.</i> Same as for a married captain in the hills.	see	3	(iii)			
	(iv) <i>Single man, in the hills.</i> Block of 4 quarters— 4 sitting-rooms, each	14	14	12	3,220	The authorized area of rooms under the main roof is 332 sq. ft. An 8' verandah in front and at ends with 2 store-rooms each 6½' x 7' and 2 bath-rooms each 6' x 7' in it, and 2 bath-rooms at the back of the middle quarters, each 6' x 7'.	
	4 bed-rooms, each	14	9	12			
	2 store-rooms (in centre)	11½	4	12			
	(a) Cook-house— As for a major	see	2(ii)	(a)	109	One between 4 officers.	
	(f) Servants' quarters— 12, each	10	8	8	...	3 quarters for each officer.	
	(g) Stables, 4 stalls, each	6	10	9	495	With 4' passage in front.	
5	UNIT SYSTEM.						
	(i) <i>Double-storied block of 8 units.</i> Containing 4 units, each— 1 room	24	18	...	6,810	No field officer is entitled to more than 3 units or any other officer to more than 2 units unless there are spare units available. No officer is obliged to occupy more than 1 unit. Verandah 10' wide all round, and a main staircase in the centre of the block 18' x 10'.	26-officers' quarters.
	Ditto	18	12	...			
	Bath and store-rooms in verandah, each	12	10	...			
	And 4 units, each— 1 room	24	18	...	6,810	The single-storied design is preferable subject to local conditions. Verandah 10' wide, all round	26-officers' quarters
	Dressing, bath-room, and verandah	18½	10	...			
	(ii) <i>Single-storied block.</i> Containing 2 units each— 1 room	24	18	...			
	Ditto	18	12	...	6,810		
	Bath and store-rooms in verandah, each	12	10	...			
	And 2 units, each— 1 room	24	18	...			
	Ditto	20	10	...	240	For every 4 units.	
	Bath-room in verandah	14	10	...			
	(a) Cook-house	12	12	12			
	(f) Servants' quarters— 5 each (hills	10	8	8	566	For each unit.	
	{ plains	12	10	8	799		
	(g) Stables, each	12	8	9	170	1 for each unit, and 1 extra for each charger an officer is bound to maintain.	
	(h) Coach-house— (To hold 2 conveyances)	24	12	12	430	One for each block of 4 units.	

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
		Ft.	Ft.	Ft.	Sq. ft.		
6	OFFICERS' MESS-HOUSES —contd.						
	(iv) 2 batteries R. A., of a detached wing B. I., or an Indian cavalry or Indian infantry regiment in the hills or in hatted camps—contd.						
	Mess sergeant's quar- ters—						
	1 room*	20	12	10	1,020	Not provided in mess-houses of Indian units. 9' verandah in front. Lamp and bath-rooms at back, each 7½' x 6'.	6-hatted camp.
	Pantry	10½	12	10			
	Store-room	8	12	10			
	(a) Cook-house	as	in	item	6-A		
	(b) Officer's latrine	as	in	(i) (b)	130		
	(f) Servants' quarters	as	in	item	6-B		
	(i) Store-rooms— 3 rooms, each	15	10	8	...		
	(v) 3 batteries, R.A., in the plains—						
	Mess-room	45	22	21	6,553	For R. A. brigade head-quarters add 10' to the length of the mess-room and for each extra battery add 15' to the length of the mess-room.	45-offi- cers' quarter modified.
	Ante-room	30	22	21			
	Billiard-room	30	22	21			
	Mess sergeant's quarter as in item 21 (i)						
	(a) Cook-house	as	in	item	6-A		
	(b) Officers' latrine	as	in	item	(i) (b)		
	(f) Servants' quarters	as	in	item	6-B		
	(i) Store-room	as	in	(i)	(i)		
	(j) Enclosure wall or fence.	as	requi	red			
	(vi) 3 batteries, R.A., or a head-quarters wing B. I., in the hills or in hatted camps—						
	Mess-room	27	20	10	3,240	9' verandah in front and for half the back of the building with inventory 13½' x 7½', and store-room 8' x 7½' in it.	4-hatted camp.
	Ante-room	27	20	10			
	Billiard-room	27	20	10			
	Bearer's room	10	10	10			
	Mess sergeant's quarters—						
	Sergeant's room*	20	12	10	1,020	9' verandah in front. Lamp and bath-rooms at back, each 7½' x 6'.	Do.
	Abdar's room*	20	12	10			
	(a) Cook-house—	as	in	item	6-A		
	(b) Officers' latrines—	as	in	item	(i) (b)		
	(f) Servants' quarters—	as	in	item	6-B.		
	(i) Store-rooms— Block of 3 rooms, each	20	15	8	1,320		

* This room may be divided into two, if desired.

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
6	OFFICERS' MESS-HOUSES.						
	(i) <i>For a battery, R.A. in the plains.</i>						
	Mess-room	30	20	21	} 3,530	10' verandah all round with pantry, bearer's room and store-room in it.	46-officers' quarters modified.
	Ante-room	20	18	21			
	Mess-serjeant's quarters as in item 21 (i) . . . . .	...	...	...	...	6' verandah round 3 sides with a bathroom in it.	
	(z) Cook-house—	as	in	item 6-A			
	(b) Officers' latrine—						
	Privy of 2 seats	8	8	10	130		
	(f) Servants' quarters—	as	in	item 6-B			
	(i) Store-room	10	10	10			
	(j) Enclosure wall or fence	as	required.				
	(ii) <i>For a battery, R.A., in the hills, or in hutted camps—</i>						
	Mess-room	20	18	10	} 1,680	With 9' verandah in front	5-hutted camp.
	Ante-room	20	18	10			
	Dressing-room	12½	10	10			
	Bath-room	6	10	10			
	Bearer's room	10	10	10			
	Mess serjeant's quarters—						
	1 room*	20	12	10	} 1,010	9' verandah in front which contains the pantry. Bath-room 7½' × 6' at back.	Do.
	Pantry	7½	12	9			
	Mess-store	13½	12	10			
	Lamp-room	5½	12	10			
	(a) Cook-house	as	in	item 6-A			
	(b) Officer's latrine	as	in	(i)(b) 130			
	(f) Servant's quarters	as	in	item 6 B			
	(iii) <i>2 batteries, R.A., or an Indian cavalry or Indian infantry regiment in the plains—</i>						
	Mess-room	30	20	21	} 4,890	Verandah 10' (in the clear) all round, with a dressing-room 10' × 10', bearer's room 10' × 10', store-room 23' × 10', and pantry 23' × 10', in it.	46-officers' quarters.
	Ante-room	24	18	21			
	Billiard-room	24	18	21			
	Mess serjeant's quarters, as in item 21 (i) . . . . .	...	...	...	...	Not provided in mess-houses of Indian units.	
	(a) Cook-house	as	in	item 6-A			
	(b) Officer's latrine	as	in	(i) (b) 130			
	(f) Servants' quarters	as	in	item 6-B			
	(j) Enclosure wall or fence	as	required.				
	(iv) <i>2 batteries, R. A., or a detached wing B. I., or an Indian cavalry or Indian infantry regiment in the hills or in hutted camps—</i>						
	Mess-room	24	20	10	} 2,780	9' verandah in front and for half the back of the building, with a lavatory 13½' × 7½', and a store-room 7½' × 5' in it.	5-hutted camp.
	Ante-room	20	18	10			
	Billiard-room	27	20	10			
	Bearer's room	10	10	10			

* This room may be divided into two, if required.

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
		Ft.	Ft.	Ft.	Sq. ft.		
3-A	COOK-HOUSES FOR OFFICERS' MESS-HOUSES.					For details of fittings, see T. P. 17 B. I.	
	(i) For 6 officers in the plains.						
	Cook-house contain- ing—						
	Kitchen . . .	14	14	13	648	With a 7' verandah in front containing a fuel store, 6½' x 4½'.	
	Scullery . . .	9½	6	8			
	Cook's room . .	10	6	8			
	Meat store . . .	8	8	8			
	(ii) For 6 officers in the hills.						
	Cook-house contain- ing—						
	Kitchen . . .	18	12	10	736	With a 7' verandah in the front containing a fuel store, 6' x 3½'.	
	Scullery . . .	12	6	8			
	Cook's room . .	10	6	8			
	Meat store . . .	8	8	8			
	(iii) For 12 to 18 officers in the plains.						
	Cook-house contain- ing—						
	Kitchen . . .	16	15	13	762	With a 7' verandah in the front containing a fuel store, 6½' x 4½'.	
	Scullery . . .	10½	6	8			
	Cook's room . .	10	6	8			
	Meat store . . .	10	10	8			
	(iv) For 12 to 18 officers in the hills or in hatted camps.						
	Cook-house contain- ing—						
	Kitchen . . .	21	12	10	846	With a 7' verandah in front containing a fuel store, 6' x 3½'.	
	Scullery . . .	12	6	8			
	Cook's room . .	10	6	8			
	Meat store . . .	10	10	8			
	(v) For 30 officers in the plains.						
	Cook-house contain- ing—						
	Kitchen . . .	18	18	13	944	With a 7' verandah in front containing a fuel store, 6½' x 4½'.	
	Scullery . . .	13½	6	8			
	Cook's room . .	10	6	8			
	Meat Store . . .	12	12	8			
	(vi) For 30 officers in the hills or in hatted camps.						
	Cook-house contain- ing—						
	Kitchen . . .	27	12	10	1,032	With a 7' verandah in front containing a fuel store, 6' x 3½'.	
	Scullery . . .	12	6	8			
	Cook's room . .	10	6	8			
	Meat store . . .	12	12	8			

Appx. V.—Accommodation—General.

4

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
		Ft.	Ft.	Ft.	Sq. ft.		
6	OFFICERS' MESS-HOUSES —contd.						
	(vii) <i>A regiment of British cavalry in the plains—</i>						
	Mess-room	61½	24	21	9,247	With verandah 10½' wide in the clear all round, containing lavatory 25' × 10½' dressing room 17½' × 10½' and pantry 19' × 10½'.	
	Hall	21	10½	21			
	Ante-room	42½	20	21			
	Billiard-room	32	23	21			
	Reading and card room	34	23	21			
	Office	18½	13½	21	545		
	Silver-room	18½	9½	21			
	Porch	21½	20	12	21 (i)		
	Mess-serjeant's quarters	as	in	item			
	(a) Cook-house—						
	Kitchen	18	18	13	1,857	With 6' verandah on one side	
	Scullery	13½	6	8			
	Meat store	12	12	8			
	Store-room	21½	12	8			
	Lamp-room	14	10	8			
	Fuel-store	10	6	8	6-B.		
	Cook's room	10	6	8			
	Bearers' room	10	6	8			
	(b) Officers' latrine	as	in (i)	(b)			
	(f) Servants' quarters	as	in	item			
	(j) Enclosure wall or fence	as	required				
	(viii) <i>A battalion of British infantry in the plains—</i>						
	Mess-room	60	22	21	7,990	Verandah 12' wide all round, with pantry and store-rooms, each 26' × 12', dressing, and bath-rooms each 12' × 12' and bearer's room, 9' × 12' in it.	36-officers' quarters.
	Ante-room	30	22	21			
	Billiard room	30	22	21			
	Mess serjeant's quarters	as	in	item	21 (i)		
	(a) Cook-house	as	in	item	6-A.		
	(b) Officers' latrine	as	in	(i)	(b)		
	(f) Servants' quarters—	as	in	item	6-B.		
	(j) Enclosure wall or fence	as	required				
	(ix) <i>4 batteries, R.A., or a battalion of British infantry in the hills and in hutted camps—</i>						
	Mess-room	36	20	10	3,580	9' verandah in front and for half the back of the building, with a lavatory 13½' × 7½', and a store-room 8' × 7½', in it.	4-hutted camp.
	Ante-room	27	20	10			
	Billiard-room	27	20	10			
	Bearer's room	10	10	10			
	Mess serjeant's quarters	as	in	(vi)			
	(a) Cook-house	as	in	item	6-A		
	(b) Officers' latrine	as	in	(i)	(b)		
	(f) Servants' quarters	as	in	item	6-B		
	(i) Store-rooms	as	in	(vi)			

Appx. V.—Accommodation—General.

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.		
6-B	<p>SERVANTS' QUARTERS FOR OFFICERS' MESSES OF UNITS OR GROUPS OF UNITS.</p> <p>(i) For 10 officers or under in the plains. 6 quarters, each . . .</p> <p>(ii) For 10 officers or under in the hills. 6 quarters, each . . .</p> <p>(iii) For 11 to 15 officers in the plains. 7 quarters, each . . .</p> <p>(iv) For 11 to 15 officers in the hills. 7 quarters, each . . .</p> <p>(v) For 16 to 20 officers in the plains. 9 quarters, each . . .</p> <p>(vi) For 16 to 20 officers in the hills. 9 quarters, each . . .</p> <p>(vii) For over 20 officers in the plains. 10 quarters, each . . .</p> <p>(viii) For over 20 officers in the hills. 10 quarters, each . . .</p> <p>QUARTERS FOR DEPARTMENTAL OFFICERS, WARRANT AND N. C. OFFICERS AND CIVILIAN GAZETTED AND NON-GAZETTED OFFICERS AND SUBORDINATES—NEW SCALE.</p>	12	10	9			Where a pipe water supply is laid on to the mess house and taps are provided in cook-house, pantry and mess lavatory, the number of quarters should be reduced by one.		
		10	8	8					
		12	10	9					
		10	8	8					
		12	10	9					
		10	8	8					
		12	10	9					
		10	8	8					
8	<p>CLASS B QUARTERS.</p> <p>(i) In the plains, detached quarter.</p> <p>Drawing-room . . .</p> <p>Dining-room . . .</p> <p>Hall . . .</p> <p>2 bed-rooms, each . . .</p> <p>1 bed-room . . .</p> <p>(ii) In the plains, semi-detached quarter.</p> <p>(a) Cook-house—</p> <p>Kitchen . . .</p> <p>(f) Servants' quarters—Block of 4 quarters, each . . .</p> <p>(g) Coach house and stable—</p> <p>Coach house . . .</p> <p>Stable . . .</p> <p>(iii) In the hills, detached quarter.</p> <p>Drawing room . . .</p> <p>Dining-room . . .</p> <p>Bed-room . . .</p> <p>Ditto . . .</p> <p>(iv) In the hills, semi-detached quarter.</p> <p>Rooms . . . same as above</p> <p>Double-storied portion . . .</p> <p>Single " " . . .</p>	18	16	...	3,780		For the individuals shown against class B in paragraph 5 to the number 9 or less, the full number of quarters should be given; for 10 to 12, one quarter less allowing for 2 men being single; for 13 to 20, 2 less.	Verandah 8' (in the clear) all round, with 1 dressing and 3 bath-rooms, a pantry and store-room in it. The authorized floor area of main rooms is 1,344 sq. ft. For height of quarters see paragraph 5.	
		18	16	...					
		6	16	...					
		15	16	...					
		12	16	...					
		...	...	...	3,190		
		12	10	9½	210				
		12	10	9	643				
		8	12	9	330				
		8	12	9					
		15	14	12	1,670	See remarks against (i) 6' verandah in front and 7½' verandah for ⅓rds of each side, with 2 bath-rooms, pantry and store-room in it. The authorized floor area of main rooms is 756 sq. ft.	6' verandah on 2 sides of the lower floor.		
		14	12	12					
		15	14	12					
		14	12	12					
		same	as	above	780				
		...	...	...	240		

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
		Ft.	Ft.	Ft.	Sq. ft.		
12	CLASS I QUARTERS (in blocks).					The full number of quarters to be built in blocks of sizes suitable to the site.	
	(a) <i>In the plains.</i>					6' verandah at front and back to be provided, with one bath-room for each apprentice in it. For height of quarters see paragraph 5.	
	1 room, each apprentice	16	14	...			
	Common room for each block or group of quarters at 50 sq. ft. per apprentice, minimum size.	16	14	...			
	(a) <i>Coastal zone—</i>						
	1 per block of suitable dimensions	...	...	...
	(f) <i>Servants' quarters</i>						
	1 quarter per two apprentices, each.	12	10	9			
	(a) <i>In the hills.</i>						
	1 room, each apprentice	12	12	12			
	Common room for each block or group of quarters at 50 sq. ft. per apprentice, minimum size	12	12	12			
	(a) <i>Coastal zone—</i>						
	1 per block of suitable dimensions.	...	...	...
	(f) <i>Servants' quarters—</i>						
	1 quarter per two apprentices, each.	10	8	8			
13	CLASS II QUARTERS (in blocks)						
	(a) <i>The Home Service Mechanics</i>					All quarters to be for single men.	
	Each quarter for one man	16	14	...		8' verandah at front and back, containing one bath-room for each mechanic.	
	(b) <i>For other trades—</i>					For height of quarters see paragraph 5.	
	1 single room	20	14	...			
	1 double room	16	10	9			
	(c) <i>Servants' quarters.</i>						
	1 per each quarter, each	12	10	9			
	(d) <i>For married men and Mechanics</i>					Half the quarters to be built for married men and half for single men.	
	1 for married men and half for single men	20	10	(c)			
	QUARTERS FOR (d). FAMILIAR, CIVIL, CLERK, VETERAN AND ALL OTHERS (in blocks)						
14	CLASS III QUARTERS (in blocks)						
	(a) <i>For single men</i>					The width of the quarters to be built in blocks of sizes suitable to the site.	
	1 single room	14	10	12		6' verandah at front and back, containing one bath-room for each man.	
	1 double room	16	10	12		For height of quarters see paragraph 5.	
	(b) <i>For married men</i>						
	1 for married men and half for single men	20	10	(c)			

Item No.	Buildings.	Length.	Width.	Height.	Floor area, approximate.	Remarks.	Type plan and series.
12	Sub-Conductor's Quarters. (a) In the plan. Building room 2 bath rooms, each Bed room building	18 16 as	16 10 in	17 17 item	1,840 16 (i)	The authorized floor area is 608 sq. ft. 10' verandah at front and back with 2 bath-rooms in it. Except that when quarters for sub-conductors are built in blocks, 3 servants' quarters are given for every 2 sub-conductors with one extra for an odd number. See remarks against item 16 (i). The authorized floor area is 480 sq. ft.	
	(ii) In the plan. Same as for a conductor	see item	16	(ii)			
13	Sub-Conductor's Quarters. Classes A, B and C— Same as for regular N. C. O.— With the addition for each quarter of (a) Servant's quarters (b) Stable	12 12	10 8	9 9	320	N. C. O. of any military staff department are entitled to class A quarters, built in blocks of 2 or more quarters, if possible. N. C. O. attached to native corps are entitled to servants' quarters of classes A, B or C, according to the position held by them in the corps.	
	QUARTERS FOR REGIMENTAL, BATTAL, COMPANY AND N. C. OFFICERS AND MARCHED BASK AND TILL.						
14	Warrent's Quarters. (a) In the plan. Building room 2 bath rooms, each Bed room building	18 16 as	16 10 in	17 17 item	1,840 16 (i)	The authorized floor area is 608 sq. ft. 10' verandah at front and back with 2 bath-rooms in it. Except that when quarters for sub-conductors are built in blocks, 3 servants' quarters are given for every 2 sub-conductors with one extra for an odd number. See remarks against item 16 (i). The authorized floor area is 480 sq. ft.	
	(ii) In the plan. Same as for a conductor	see item	16	(ii)			
15	Warrent's Quarters. (a) In the plan. Building room 2 bath rooms, each Bed room building	18 16 as	16 10 in	17 17 item	1,840 16 (i)	The authorized floor area is 608 sq. ft. 10' verandah at front and back with 2 bath-rooms in it. Except that when quarters for sub-conductors are built in blocks, 3 servants' quarters are given for every 2 sub-conductors with one extra for an odd number. See remarks against item 16 (i). The authorized floor area is 480 sq. ft.	
	(ii) In the plan. Same as for a conductor	see item	16	(ii)			
16	Warrent's Quarters. (a) In the plan. Building room 2 bath rooms, each Bed room building	18 16 as	16 10 in	17 17 item	1,840 16 (i)	The authorized floor area is 608 sq. ft. 10' verandah at front and back with 2 bath-rooms in it. Except that when quarters for sub-conductors are built in blocks, 3 servants' quarters are given for every 2 sub-conductors with one extra for an odd number. See remarks against item 16 (i). The authorized floor area is 480 sq. ft.	
	(ii) In the plan. Same as for a conductor	see item	16	(ii)			
17	Warrent's Quarters. (a) In the plan. Building room 2 bath rooms, each Bed room building	18 16 as	16 10 in	17 17 item	1,840 16 (i)	The authorized floor area is 608 sq. ft. 10' verandah at front and back with 2 bath-rooms in it. Except that when quarters for sub-conductors are built in blocks, 3 servants' quarters are given for every 2 sub-conductors with one extra for an odd number. See remarks against item 16 (i). The authorized floor area is 480 sq. ft.	
	(ii) In the plan. Same as for a conductor	see item	16	(ii)			
18	Warrent's Quarters. (a) In the plan. Building room 2 bath rooms, each Bed room building	18 16 as	16 10 in	17 17 item	1,840 16 (i)	The authorized floor area is 608 sq. ft. 10' verandah at front and back with 2 bath-rooms in it. Except that when quarters for sub-conductors are built in blocks, 3 servants' quarters are given for every 2 sub-conductors with one extra for an odd number. See remarks against item 16 (i). The authorized floor area is 480 sq. ft.	
	(ii) In the plan. Same as for a conductor	see item	16	(ii)			
19	Warrent's Quarters. (a) In the plan. Building room 2 bath rooms, each Bed room building	18 16 as	16 10 in	17 17 item	1,840 16 (i)	The authorized floor area is 608 sq. ft. 10' verandah at front and back with 2 bath-rooms in it. Except that when quarters for sub-conductors are built in blocks, 3 servants' quarters are given for every 2 sub-conductors with one extra for an odd number. See remarks against item 16 (i). The authorized floor area is 480 sq. ft.	
	(ii) In the plan. Same as for a conductor	see item	16	(ii)			
20	Warrent's Quarters. (a) In the plan. Building room 2 bath rooms, each Bed room building	18 16 as	16 10 in	17 17 item	1,840 16 (i)	The authorized floor area is 608 sq. ft. 10' verandah at front and back with 2 bath-rooms in it. Except that when quarters for sub-conductors are built in blocks, 3 servants' quarters are given for every 2 sub-conductors with one extra for an odd number. See remarks against item 16 (i). The authorized floor area is 480 sq. ft.	
	(ii) In the plan. Same as for a conductor	see item	16	(ii)			

Item No.	Buildings	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
20	CLASS A QUARTERS*— <i>contd.</i> (i) <i>In the plains.</i> (a) Cook-house (b) Latrine (ii) <i>In the hills.</i> 4 rooms, each 2 bath-rooms, each (a) Cook-house (b) Latrine	Ft. as in item see paragraph	Ft. (i) 28	Ft. (a) 21 10 9 21 (ii) (a) 28	Sq. ft. 1,133 103	See paragraph 16. Authorised for all married regimental N. C. Os. and men except as provided for in item 20; N. C. Os., R. E., of defence light sections receive quarters according to rank, and have one servant's quarter 12' x 10' provided at State expense for each quarter. A servant's quarter of the same size should also be provided for N. C. Os., R. E., of detached companies of S. and M. For height of quarters see paragraph 5.	132-B. I. modified. 1-hutted camp, modified. 132-B. I. modified.
21	CLASS B QUARTERS.* (i) <i>In the plains.</i> One set of two quarters, containing :— 4 rooms, each 2 rooms, each 2 bath-rooms, each (a) Cook-house, one for each quarter. (b) Latrine (ii) <i>In the hills.</i> One set of two quarters, containing :— 4 rooms, each 2 rooms, each 2 bath-rooms, each (a) Cook-house, one for each quarter, containing :— Kitchen Cooking place for stove. (b) Latrine	16 10 10 9 see paragraph 28 12 12 6 10 5½ see paragraph 28	13 13 8 7 24 28 12 11 7 7 2 28	... ... 10 10 10 8 8 10 10 9 9 8 8 10 7 9	3,768 103 1,577 136	See para. 24.	7-A. B. I. 7-F. B. I. 1-hutted camp. 10-hutted camp.
22	SERGEANTS' QUARTERS IN SINGLE MEN'S BAR- RACKS. <i>In the plains.</i> 1 room 1 " 1 bath-room <i>In the hills.</i> 1 room † 1 bath-room MISCELLANEOUS.	16 16 10½ 22 6	14 11 8 12 7	... ... 9½ 10 9		For height of quarters see paragraph 5. These quarters may be used as Class B quarters for married men with small families.	6 B., B. I. 1-hutted camp.
28	MISCELLANEOUS. FIRE-ENGINE SHED. Shed	24	13	8	420	The stations at which fire engines are authorised are shown in Table XXXII, Army Tables, Miscellaneous Services, 1909. The fire engine sheds are to be built near the quarter guard or stables.	48 B. I.
29	FIVES COURTS. (i) <i>In the plains.</i> 2 ball courts, each 2 fives courts " (ii) <i>In the hills.</i> Fives court Dressing room Spectators' gallery	45 45 50 11½ 30	30 42½ 30 10 10	... ... 25 7½ 8	7,050 1,930	Fives courts are not allowed without the sanction of the G. of I. The C-in-C. has decided that fives courts are not required in hutted camps.	32 B. C. modified.

* To be attached to blocks of other sergeants' quarters. † This room may be divided into two, if desired.

Item No.	Building.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type, plan and series.
31	INSTITUTE (EXCLUDING LIQUOR BAR AND THEATRE) FOR BRITISH TROOPS IN THE PLAINS AND HILLS— <i>contd.</i>	Ft.	Ft.	Ft.	Sq. Ft.		
	(i) For 751 to 900 men— <i>contd.</i>						
	Recreation and refreshment portion:—				22,082		
	Temperance room	44 $\frac{3}{8}$	30 $\frac{3}{8}$	15		} In upper storey. Three billiard tables.	
	Hall	24 $\frac{3}{8}$	32 $\frac{3}{8}$	15			
	Games room	44 $\frac{3}{8}$	30 $\frac{3}{8}$	15			
	Billiard room	56	32	16			
	Supper „	67 $\frac{1}{2}$	32	16			
	Supper issue room	29	16 $\frac{1}{2}$	16			
	Branch liquor bar	29	14	16			
	Grocery bar	32	14	16			
	Store-room	15 $\frac{1}{4}$	15 $\frac{3}{4}$	16			
	Office	15 $\frac{1}{4}$	15 $\frac{3}{4}$	16			
	Store	29	10	10		} In the verandah. One billiard table.	
	Lavatory	18	9 $\frac{1}{2}$	10			
	Corporals' room	38	32	16			
	Caterer's quarters—						
	Bed-room	14	13 $\frac{1}{2}$	16			
	Sitting room	16	14	16			
	Bath-room	10	8	10		In the verandah.	
	(a) Cookhouse containing—						
	Kitchen	23 $\frac{1}{2}$	16	13	} 1,039	With an 8' verandah in front containing a fuel store, 7 $\frac{1}{4}$ x 3 $\frac{1}{2}$ '.	10 Hospital.
	Scullery	16	12	13			
	(b) Latrine—						
	Privy of 2 seats	5 $\frac{3}{8}$	10	9	105	Not to be given when there is a barrack latrine near.	132 B. I.
	(d) Urinary—						
	4 compartments	10	6 $\frac{1}{2}$	7	85	.....	133 B. I.
	(i) For 651 to 750 men.						
	Library portion—						
	Reading room	40	24	16			
	Hall	24	26	16			
	Writing room	21 $\frac{7}{8}$	24	16		Includes book-room.	
	Recreation and refreshment portion—						
	Temperance room	40 $\frac{3}{8}$	21 $\frac{3}{8}$	15		} In upper storey. Two billiard tables.	
	Hall	24 $\frac{3}{8}$	26 $\frac{3}{8}$	15			
	Games room	40 $\frac{3}{8}$	24 $\frac{3}{8}$	15			
	Billiard room	40	32	16			
	Supper room	62	26	16			
	Supper issue room	29	12	16	} 18,076		
	Branch liquor bar	29	12	16			
	Grocery bar	26	14	16			
	Store-room	15 $\frac{1}{4}$	12 $\frac{1}{2}$	16			
	Office	15 $\frac{1}{4}$	12 $\frac{1}{2}$	16			
	Store	29	10	10		} In the verandah. One billiard table.	
	Lavatory	18	9 $\frac{1}{2}$	10			
	Corporals' room	28	32	16			
	Caterer's quarters—						
	Bed-room	17	10 $\frac{1}{2}$	16			
	Sitting room	17	13	16			
	Bath-room	10	8	16		In the verandah.	
	(a) Cookhouse	as in	(i)		1,039		
	(b) Latrine	as in	(i)		105		
	(d) Urinary	as in	(i)		85		

Accommodation—General—Appx. V.

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
		Ft.	Ft.	Ft.	Sq. ft.		
31	INSTITUTE (EXCLUDING LIQUOR BAR AND THEATRE) FOR BRITISH TROOPS IN THE PLAINS AND HILLS—concl'd. (vii) For and up to 200 men—cont'd. Recreation and refreshment portion— Temperance room . . . 20 ³ / ₈ 24 ³ / ₈ 15 Hall . . . 12 ³ / ₈ 26 ³ / ₈ 15 Games room . . . 16 ³ / ₈ 24 ³ / ₈ 15 Billiard room . . . 28 24 16 Supper room . . . 33 24 16 Supper issue room . . . 20 12 16 Branch liquor bar . . . 20 11 ¹ / ₂ 16 Grocery bar . . . 10 24 16 Store-room . . . 11 ¹ / ₂ 12 16 Office . . . 11 ¹ / ₂ 12 16 Store . . . 10 20 10 Lavatory . . . 6 9 ¹ / ₂ 10 Corporals' room . . . 14 24 16 Caterer's quarters— Bed-room . . . 16 11 ¹ / ₂ 16 Sitting room . . . 16 12 16 Bath-room . . . 10 8 16 (a) Cookhouse containing— Kitchen . . . 16 14 ¹ / ₂ 13 Scullery . . . 16 8 13 (b) Latrine . . . as in (iv) (c) Urinary— 1 compartment . . . 6 ¹ / ₂ 2 ¹ / ₂ 7 32 PRAYER ROOM. (i) For a battalion of infantry or its equivalent in the plains. Main room . . . 40 18 20 2 side rooms . . . 14 8 12 Porch . . . 10 10 12 (ii) For a battalion of infantry or its equivalent in the hills. Main room . . . 30 14 12 2 side rooms . . . 14 10 12 Porch . . . 10 10 9 32A THEATRE. (i) For 4 batteries R. H. & R. F. A. with ammunition columns. 195 seats . . . 64 24 16 (ii) For 4 companies R. G. A. (Inland). 140 seats . . . 49 24 16						In upper storey. One billiard table. <

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
		Ft.	Ft.	Ft.	Sq. Ft.		
31	INSTITUTE (EXCLUDING LIQUOR BAR AND THEATRE) FOR BRITISH TROOPS IN THE PLAINS AND HILLS— <i>contd.</i>						
	(v) For 351 to 450 men.						
	Library portion—						
	Reading room	25	24	16	14,285	Includes book-room.	
	Hall	26	14	16			
	Writing room	24	10½	16			
	Recreation and refreshment portion—						
	Temperance room	28½	24½	15	14,285	In upper storey.	
	Hall	14½	26½	15			
	Games room	25	24½	15			
	Billiard room	38	28	16			
	Supper room	54	26	16		Two billiard tables.	
	Supper issue room	26	13	16			
	Branch liquor bar	26	12	16			
	Grocery bar	26	12	16			
	Store-room	12½	12½	16			
	Office	12½	12½	16			
	Store	26	10	10		In the verandah.	
	Lavatory	9	9½	10			
	Corporals' room	16	28	16			
	Caterer's quarters	as	in	(iv)			
	(a) Cookhouse	as	in	(iv)			
	(b) Latrine	as	in	(v)			
	(d) Urinary	as	in	(iv)			
	(vi) For 201 to 350 men						
	Library portion—						
	Reading room	26	12	16	12,990	In upper storey.	
	Hall	26	14	16			
	Writing room	26	11½	16			
	Book-room	13½	8	16			
	Recreation and refreshment portion—					Two billiard tables.	
	Temperance room	26½	24½	15			
	Hall	14½	26½	15			
	Games room	22½	24½	15			
	Billiard room	38	28	16		In the verandah.	
	Supper room	40	24	16			
	Supper issue room	24	12	16			
	Branch liquor bar	24	11½	16			
	Grocery bar	24	12	16		In the verandah.	
	Store-room	11½	12	16			
	Office	11½	12	16			
	Store	24	10	10			
	Lavatory	9	9½	10			
	Corporals' room	14	28	16			
	Caterer's quarters—						
	Bed-room	13½	13½	16	919	In the verandah.	
	Sitting room	22	10	16			
	Bath-room	10	8	16			
	(a) Cookhouse	as	in	(iv)			
	(b) Latrine	as	in	(iv)	40	See remarks against (i) (b).	
	(d) Urinary	as	in	(iv)	48		
	(vii) For and up to 200 men.						
	Library portion—						
	Reading room	20	12	16			
	Hall	26	12	16			
	Writing room	11½	11½	16			
	Book-room	11½	8	16			

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
		Ft.	Ft.	Ft.	Sq. ft.		
33	VETERINARY HOSPITALS— <i>contd.</i>						
	(i) <i>Station veterinary hospital—class I. (General Central)—contd.</i>						
	Boiling house and store—					Two boilers for each building are to be supplied by the M. W. S.	87 A, B. C.
	Room for boiling purposes	8	8	8½	395		
	Grain store	12	8	8½			
	Wood store	12	8	8½			
	Watering trough	length as required.					
	Irrigation stand and hard.					See para. 56.	3 Misc.
	Mobilisation store	33½	8½	12	670	With 6½' verandah in front when considered necessary by P. V. O. in India.	
	Quarters for followers—						
	Syces 2 per squadron and 1 per battery.	12	10	10			
	1 bhisti						
	1 sweeper						
	Farrier serjeant's quarters with subsidiary buildings	as in item 10.					
	Shoeing smith's quarters with subsidiary buildings	according to rank.					
	Enclosure wall	as required.					
	(ii) <i>Station veterinary hospital, class I. (for British cavalry).</i>	same as in (i).				Except that stalls are provided at 7 per cent., loose boxes at 2 per cent., and outstandings at 9 per cent. of strength of cavalry. See remarks against (i).	
	(iii) <i>Station veterinary hospital, class II. (for R. H. A. or R. F. A.).</i>						
	Main building—						
	Stalls 6 per cent. of strength, each	14	8	15½		See para. 56. One loose box will be fitted with slinging bars. A 6½' verandah will be given on 3 sides and a central passage 6' wide through the length of building.	87 A, B. C.
	Loose boxes, 3 per cent. of strength.						
	Special cases, colic, etc.—	14	13½	15½			
	Ordinary	14	12	15½			
	Outstandings 9 per cent. of strength	14	8	...			
	Office	14	16	15½			
	Pharmacy	14	16	15½			
	Store room	14	14	15½			
	Isolation box	14	14	15½	320		87 B, B. C.
	Boiling house and grain store.	as in (i).			210		
	Watering trough	length as required.					3 Misc.
	Enclosure wall	as required.					
	(iv) <i>Veterinary hospital for British mountain battery in the hills.</i>						
	1 compartment of 4 standings	34	13	8	2,014	One loose box will be fitted as a casting shed, with slinging bars. Doors to be provided in the outer walls of standings and loose boxes. See para. 56.	87 A, B. C.
	3 loose boxes, each	11½	13	8			
	Surgery	12	13	8			
	Office	12	13	8			
	Central passages	47½	6	...			

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
32A	THEATRE—contd.	Ft.	Ft.	Ft.	Sq. Ft.		
	(iii) For 4 companies R. G. A. (Coast). 110 seats	41	24	16			
	(iv) For R. F. A. brigade or group of 3 batteries R. H. & R. F. A. with a R. F. A. ammunition column. 145 seats	50	24	16			
	(v) For 3 companies R. G. A. (Inland). 105 seats	39	24	16			
	(vi) For 3 companies R. G. A. (Coast). 85 seats	34	24	16			
	(vii) For a regiment of British cavalry. 150 seats	52	24	16			
	(viii) For a battalion of British infantry. 250 seats	80	24	16			
	(ix) For headmasters and 6 companies of British infantry. 200 seats	65	24	16			
	(x) For headquarters wing of British infantry. 140 seats	49	24	16			
	(xi) For detached wing of British infantry. 110 seats	41	24	16			
33	VETERINARY HOSPITALS.						
	(i) Station veterinary hospital—class I. (General Central.) Main building— Stalls, 6 per cent. of strength, each	14	8	15½		A 6½' verandah on 3 sides and a central passage 6' wide through the length of the building. The slinging bars are to be 8' from the ground and firmly fixed. The blocks and pulleys for slings will be provided as fixtures by the M. W. S. Jhamps with 2 poles each are allowed when considered absolutely necessary by the veterinary officer. Stocks are to be provided on the scale of one per first class veterinary hospital. See para. 56.	87 A, B. C.
	Loose boxes, 1 per cent. of strength— Ordinary cases, each	14	12	15½			
	Special for colic and eye cases, each	14	13½	15½			
	Outstandings, 7 per cent. of strength, each	14	8	...			
	2 sling boxes, each	14	12	15½			
	Office	14	16	15½			
	Pharmacy	14	16	15½			
	Orderlies' room	14	14	15½			
	Store	14	14	15½			
	Isolation block— 2 Isolation boxes, each	14	14	15½	941	A 6½' verandah on 2 sides, each containing a store room, 6½' x 5½'.	87 B, B. C.
	Casting shed	25	25	10	} 1,218		87 B, B. C.
	Ambulance shed	25	14	10			

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
35	BARRACKS FOR MARRIED RANK AND FILE. Two blocks each of 8 class B quarters (a) Cook-houses— (b) Latrines (d) Urinaries— 2 urinaries of one compartment, each	Ft. as in item see para. 6½	Ft. item para. 2½	Ft. 21(i) 28 7	Sq. Ft. 11,319 (a) 28	The strength to be accommodated is 3 per cent. of 542, that is, quarters for 16 men are required. Suitably placed for the two blocks of quarters.	132 B. I. 133 B. I.
36	QUARTERS FOR WARRANT OFFICERS. 4 class D qrs. each (a) 4 cook-houses, each (f) Servants' qrs.— 2 blocks of 2 quarters, each	as in item as in item 10	item item 9	10(i) 21(i) (a) 9	2,320 (a) 300	One each for the regimental serjeant-major, band-master, school master and school mistress. In detached or semi-detached quarters, but see item 62. Same as above. Same as above. Servants' latrine is not authorised.	
37	QUARTERS FOR STAFF SERJEANTS AND SERJEANTS. One block containing— 1 class A and 10 class B quarters One block of 12 class B quarters (a) Cook-houses— (b) Latrines—	as in items 20(i) and as in item	21(i) 21(i) 21(i)	15,724 16,352 28		At the end of the single men's barracks, there are 27 serjeants' quarters; one serjeant will be in the officers' mess; and there are quarters for provost serjeant, canteen serjeant, and caterer of the institute; or 31 in all; leaving 23 to be accommodated in the quarters for married serjeants. The scale for married quarters is 40% of 54, i.e., 22, so this number is one in excess, but it is equally cheap to provide a quarter in the married block as at the end of a barrack. Suitably placed for the two blocks.	132 B. I. modified.
38	ARMOURERS' SHOP. Work-room Forge-room Water and wood store. Drying-room	30 24 10 10	24 9½ 10 10	16½ 16½ 10 10	2,190	See para. 45.	41A to C. B. I.
39	BLACKSMITHS' FORGE AND SHOEING SHEDS. Forge-room Store-room (2 shoeing sheds (verandahs) each	50 20 60½	20 8½ 15	16 16 12½	3,500	See para. 44. A third forge may be provided where necessary.	9 B. C.
40	BLACKSMITHS' FORGE AND WORKSHOP VOLUNTARY. Forge	22	22 or 24		900		

Appx. V.—Accommodation—Royal Artillery.

Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
Ft.	Ft.	Ft.	Sq. ft.		
38	24	16	6,770	With 10' verandah on 3 sides. With 7' verandah in front containing 2 fuel stores 6½' x 2½' each.	119 B. I. modified.
30	18	13			
18½	8	13			
8	8	8			
10	8	8			
27½	12	9	730	To be placed in a central position between the barracks.	132 B. I. modified.
11	8	7			
8	6	7½			
5½	4	4½			
18	16	9	650	One urinary for each barrack.	133 B. I. modified.
6½	5	9			
as in item	in	(ir)	48		
as in item	22		4,540	The strength is 15 rank and file, of whom 1 is married. Accommodation is required for 1 single serjeant and 14 single men. This will usually be attached to one of the battery barracks in the station.	4 R. A. modified.
52½	24	16			
10	8	9½			
7	...	...	.....	Separate building not necessary. Men will be accommodated in battery dining halls, which must be enlarged accordingly.	
5½	8½	7½	80	.....	132 B. I. modified.
18 m	...	...	...	To be provided in one of the battery section lavatories, which must be enlarged accordingly.	138 B. I. modified.
t.	6½	2½	7	28	133 B. I.
ni-				The strength is 58 rank and file, of whom 2 will be married.	
in-				Accommodation is required for 2 single serjeants and 56 single men.	4 R. A. modified.
rs as in item	22		13,135		
ies, 18	67½	24			
ory	75	24			
nen	10	9			
ing	32½	24	16	With 10' verandah on 3 sides. With 7' verandah in front containing 1 fuel store, 6½' x 2½'.	119 B. I. modified.
	16	18	13		
	18½	8	13		
	8	8	8		
	10	8	8		

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
		Ft.	Ft.	Ft.	Sq. ft.		
68	BARRACKS FOR SINGLE RANK AND FILE— <i>contd.</i>						
	(a) Combined dining hall and kitchen.						
	2 dining halls, each for 82 men, each	48	24	16	7,740	With 10' verandahs on 3 sides. With 7' verandahs in front containing 2 fuel stores $6\frac{1}{4}' \times 2\frac{3}{4}'$ each.	119 B. I. modified.
	1 kitchen	30	18	13			
	2 sculleries, each	18½	8	13			
	2 cooks' rooms, each	8	8	8			
	2 meat stores, each	10	8	8			
	(b) Latrines	as in	(i)				
	(c) Lavatories	as in	(i)				
	(d) Urinaries	as in	(i)				
	(iii) Howitzer brigade ammunition column—						
	1 barrack containing—	as in	item	22	10,870	The strength is 46 rank and file, of whom 2 are married.	4 R. A. modified.
	2 sergeants' quarters						
	2 dormitories, each for 22 men, each	82½	24	16			
	store-room	10	9	9½			
	(a) Combined dining hall and kitchen.						
	1 dining hall for 44 men	25½	24	16	2,860	With 10' verandah on 3 sides. With 7' verandah in front containing 1 fuel store $6\frac{1}{4}' \times 2\frac{3}{4}'$.	119 B. I. modified.
	1 kitchen	15	18	13			
	1 scullery	18½	8	13			
	1 cook's room	8	8	8			
	1 meat store	10	8	8			
	(iv) Heavy battery.						
	1 barrack containing—	as in	item	22	11,240	The strength is 96 rank and file, of whom 4 are married. Accommodation is therefore required for 92 single men and 3 single sergeants.	4 R. A. modified.
	2 sergeants' quarters						
	1 dormitory for 24 men	90	24	16			
	1 dormitory for 22 men	82½	24	16			
	store-room	10	9	9½			
	1 barrack containing—	as in	item	22	10,450		
	1 serjeant's quarters	as above					
	dormitories for 46 men.						
	(a) Combined dining hall and kitchen—						
	1 dining hall for 92 men.	53½	24	16	4,170	With 10' verandah on 3 sides. With 7' verandah in front containing 1 fuel store $6\frac{1}{4}' \times 2\frac{3}{4}'$.	119 R. I. modified.
	1 kitchen	15	18	13			
	1 scullery	18½	8	13			
	1 cook's room.	8	8	8			
	1 meat store	10	8	8			
	(b) Latrine—						
	Privy of 7 seats	18½	8½	7½	410	To be placed in a central position between the barracks.	132 B. I. modified.
	Cart shed	11	8	7			
	Sweeper's room	8	6	7½			
	(c) Lavatories—						
	2, each containing—				650		138 B. I. modified.
	1 room for 12 basins	18	16	9			
	4 private bath-rooms	6½	6½	9			
	(d) Urinaries—						
	2, each containing—						
	double compartment	6½	5	7			133 B. I.
	(v) Company, R. G. A.						
	2 barracks, each containing—						
	1 serjeant's quarter	as in	item	22	13,280	The strength is 134 rank and file, of whom 5 are married. Accommodation is required for 129 single men and 2 sergeants.	4 R. A. modified.
	64 men { 4 dormitories						
	each	60	24	16			
	Store room	10½	8	9½			

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
69	BARRACKS FOR MARRIED RANK AND FILE—concl'd. (v) <i>Howitzer battery.</i> Block of 7 class B quarters	Ft.	Ft.	Ft.	Sq. ft.	Accommodation is required for $\frac{170 \times 4}{100} = \text{say 7 families.}$	133 B. I. modified.
	(a) Cook-houses	as in item		21 (i)	10,083	(i) (a)	
	(b) Latrines	see para.		28			
	(d) Urinaries	as in (ii)			28		
	(vi) <i>Howitzer brigade ammunition column.</i> Block of 2 class B quarters	as in item		21 (i)	3,768		
	(a) Cook-house	as in item		21 (i)	(a)	See remarks against (ii) (d) Accommodation is required for $\frac{46 \times 4}{100} = 2 \text{ families.}$ They would usually be attached to the family quarters for the howitzer battery.	
	(b) Latrines	see para.		28			
	(d) Urinary	6½ 2½		7	28		
	(vi) <i>Heavy battery.</i> Block of 4 class B quarters	as in item		21 (i)	6,285		
	(a) Cook-house	as in item		21 (i)	(a)	Accommodation is required for $\frac{96 \times 4}{100} = 4 \text{ families.}$	
	(b) Latrine	see para.		28			1 hutted camp. 10-hutted camp.
	(d) Urinary	6½ 2½		7	28		
	(vii) <i>Company, R. G. A.</i> Block of 5 class B quarters	as in item		21 (i)	7,566		
	(a) Cook-houses—	as in item		21 (i)	(a)	Accommodation is required for $\frac{134 \times 4}{100} = 5 \text{ families.}$	
	(b) Latrine	see para.		28			
	(d) Urinaries, 2	as in (ii)			28	One for each block.	
	(ix) <i>British mountain battery.</i> <i>In the hills.</i> Block of 5 class B quarters	as in item		21 (ii)	7,566		
	(a) Cook-houses	as in item		21 (i)	(a)	Accommodation is required for $\frac{120 \times 4}{100} = \text{say 5 married men.}$	
	(b) Latrines	see para.		28			
	(d) Urinaries	6½ 2½		7	28		
70	QUARTERS FOR STAFF SERJEANTS AND SERJEANTS. <i>In the plains.</i> (i) <i>For a battery, R. H. A. or R. F. A. on higher establishment.</i> Block of 7 class B quarters	as in item		21 (i)	10,083		There are 2 staff serjeants, 8 serjeants, and 1 carriage artificer, of whom 56 per cent. or 7 are to be provided with family quarters. The remainder are to be accommodated in the three quarters at the end of the single men's barracks and in the institute quarters.
	(ii) <i>For a battery, R. H. A. or R. F. A. on lower establishment.</i> Block of 6 class B quarters	as in item		21 (i)	8,802		
	(iii) <i>For R. H. A. ammunition column.</i> Block of 2 class B quarters	as in item		21 (i)	3,768		
	(iv) <i>For R. F. A. ammunition column.</i> Block of 4 class B quarters	as in item		21 (i)	6,285		
	(a) Cook-houses	as in item		21 (i)	(a)	Ditto ditto.	
	(b) Latrines	see para.		28			
	(v) <i>For a battery, R. H. A. or R. F. A. on higher establishment.</i> Block of 7 class B quarters	as in item		21 (i)	10,083		
	(vi) <i>For a battery, R. H. A. or R. F. A. on lower establishment.</i> Block of 6 class B quarters	as in item		21 (i)	8,802		
	(vii) <i>For R. H. A. ammunition column.</i> Block of 2 class B quarters	as in item		21 (i)	3,768		
	(viii) <i>For R. F. A. ammunition column.</i> Block of 4 class B quarters	as in item		21 (i)	6,285		

Accommodation—Royal Artillery—Appx. V.

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
68	BARRACKS FOR SINGLE RANK AND FILE— <i>contd.</i> (b) <i>Latrine.</i> 4 seats as for a section R. H. A. or R. F. A. (c) <i>Lavatory</i> do. (d) <i>Urinary</i> do. (vii) <i>British mountain battery in the hills.</i> 2 barracks each containing— 2 sergeants' quarters . as in item 22 38 men { 2 dormitories for 12 men, each . 36 22 10 1 dormitory for 14 men . 42 22 10 1 barrack containing— 1 sergeant's quarter . as in item 22 2 dormitories for 14 men, each . 42 22 10 1 dormitory for 12 men . 36 22 10 (a) <i>Combined dining hall and kitchen.</i> 1 room for 116 men . 52½ 22 10 1 kitchen . . . 15 16 10 1 scullery . . . 12 8 10 1 cook's room . . 8 8 8 1 meat store . . 10 8 8	Ft.	Ft.	Ft.	Sq. ft.	The strength is 120 rank and file, of whom 5 are married. Accommodation is required for 115 single men, to be given in 3 section barracks with one sergeant's quarter in each. 6' verandah in front. With 7' verandah in front containing 1 fuel store, 6' x 3½'. Accommodation is required for $\frac{164 \times 4}{100} =$ say 7 families. Accommodation is required for $\frac{142 \times 4}{100} =$ say 6 families. May be combined if the barracks are close. Accommodation is required for $\frac{15 \times 4}{100} =$ say 1 family. This should usually be attached to the family quarters for the R. H. A. battery. Accommodation is required for $\frac{58 \times 4}{100} =$ say 2 families. They should usually be attached to the R. F. A. battery family quarters.	132 B. I. modified. 138 B. I. modified. 133 B. I. 1 hutted camp. 1 hutted camp. 9 hutted camp, modified.
69	BARRACKS FOR MARRIED RANK AND FILE. <i>In the plains.</i> (i) <i>Battery, R. H. A. or R. F. A. on higher establishment.</i> Block of 7 class B quarters . . . as in item 21(i) (ii) <i>Battery, R. H. A. or R. F. A. on lower establishment.</i> Block of 6 class B quarters . . . as in item 21(i) (a) Cook-houses— . . as in item 21 (i) (a) (b) <i>Latrines</i> . . . see para. 28 (d) <i>Urinary</i> 2, of one compartment, each, 6½ 2½ 7 28 (iii) <i>R. H. A. ammunition column—</i> 1 quarter . . . as in item 21(i) (a) Cook-house— . . as in item 21 (i) (a) (b) <i>Latrine</i> . . . see para. 28 (d) <i>Urinary</i> . . . as in (ii) (iv) <i>R. F. A. ammunition column.</i> Block of 2 class B quarters . . . as in item 21(i) Subsidiary buildings . . as in (ii)						

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
		Ft.	Ft.	Ft.	Sq. ft.		
72	<p>QUARTERS FOR INDIAN ESTABLISHMENT—<i>contd.</i> <i>For a British mountain battery in the hills—</i> <i>concl'd.</i> (a) Cooking-sheds (open) about 9 sq. ft. per man.</p>					<p>The total cost of this accommodation is not to exceed R12,000, and the number of quarters for married men is to be reduced to effect this. Planking under the iron roof is unnecessary unless the huts are to be occupied in winter. No scale is laid down, but the G. of I. will consider each case on its merits.</p>	
73	<p>BLACKSMITHS' FORGE AND SHOEING SHED. <i>In the plains.</i> (i) Battery, R.H.A., R.F.A., or R.H.A. ammunition column, a howitzer battery or a howitzer brigade ammunition column. Forge 30 20 16 Store-room 20 8½ 16 Shoeing-shed 41 15 10 (ii) Heavy battery, R.G.A. as in (i) 1,600 (iii) R. F. A. ammunition column— Forge 32 20 16 Store-room 20 8½ 10 2 shoeing sheds, each 42½ 15 10 <i>In the hills.</i> (iv) British mountain battery. Forge 20 20 10 Store-room 8 20 10 Shoeing-shed 33 9 9</p>				<p>1,820 1,600 2,410 1,070</p>	<p>See para. 44. But shoeing-shed is 10' broad instead of 15'. To hold 2 forges. See para. 44. Hill hut type with 9' verandah, centrally situated as regards the stables.</p>	<p>9 B. C. modified. 9 B. C. modified. 86 I. M B.</p>
74	<p>CARPENTERS' AND COLLAR-MAKERS' WORKSHOPS. <i>In the plains.</i> (i) Battery, R.H.A., R.F.A., R.F.A. ammunition column, howitzer battery or howitzer brigade ammunition column— Carpenters' shop 30 20 16 Collar-makers' shop 30 20 16 (d) Urinary— 1 compartment 6½ 2½ 7 (ii) R.H.A. ammunition column— Carpenters' shop 20 20 16 Collar-maker's shop 20 20 16 (d) Urinary as in (i) 28 (iii) Heavy battery, R.G.A.— Carpenters' shop 27 20 16 Collar-maker's shop 27 20 16</p>				<p>3,160 28 1,985 28 2,170</p>	<p>Not to be provided if a latrine or urinary exists near. See remarks above.</p>	<p>33 B.I.</p>

[illegible]

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
74	CARPENTERS' AND COLLAR-MAKERS' WORKSHOPS— <i>concl'd.</i>	Ft.	Ft.	Ft.	Sq. ft.		
	(d) Urinary <i>In the hills.</i>	as	in	(i)	28	See remarks above.	
	(iv) British mountain battery.						
	Carpenters' shop	20	20	10	1,460	Hill hut type with 9' verandah.	S5 I.M.B. modified.
	Collar-makers' shop.	20	20	10			
	(d) Urinary	as	in	(i)	16	See remarks above.	
75	RECREATION GROUND	see	para.	51			
76	DRY EARTH SHED	10	10	8	180	For five months' supply, but	
77	FIRE ENGINE SHED	see	item	28		see para. 31.	
78	FIVES COURT	see	item	29			
79	GUN-SHED. <i>In the plains.</i>						
	(i) Battery, R. H. A. or R. F. A. on higher establishment—						
	Gun-shed	92	46	10	5,580	Provides for 20 carriages parked 2 deep.	24 C, R.A.
	Store-room	12	47½	9			
	(ii) Battery, R. H. A. or R. F. A. on lower establishment—						
	Gun-shed	65	46	10	4,196	Provides for 14 carriages parked 2 deep.	24 C, R.A. modified.
	Store-room	12	47½	9			
The following is allowed for hanging up the gun equipment for each sub-section; a board of ¾" planking 8' x 6' nailed to a frame work of 3" x 2" scantling and stiffened behind by longitudinal battens 2½" x 1½". The whole to be fastened to the wall by 4 bolts ¾" diameter. For the larger stores 3" galvanised screws should be fixed, and for small stores and leather fittings galvanised nails without heads. The positions of these to be decided locally. Flat stone runners may be given in place of channel iron ones.							
	(iii) R. H. A. ammunition column—						
	Gun-shed	83	40	10	4,519	For 17 carriages parked 2 deep.	24 C, R.A. modified.
	Store-room	12	41½	9			
	(iv) R. F. A. ammunition column—						
	3 gun-sheds, each	92	40	10	14,610	Each for 20 carriages parked 2 deep.	Ditto.
	1 store-room	12	40	10			
	2 store-rooms, each	12	41½	9			
	(v) Howitzer battery—						
	Gun-shed (10 bays)	92	47	10	5,670	The number of carriages is 19.	Ditto.
	Gun park store-room	12	48½	10			
	(vi) Howitzer ammunition column—						
	Gun-shed (12 bays)	110	47	10	6,600	The number of carriages is 30.	Ditto.
	Gun park store-room	12	48½	10			
	(vii) Heavy battery, R. G. A.						
	Gun-shed	106½	50½	10	6,900	Verandah 10' wide in the clear in front, and not lower in height than 6' 8". Low movable wooden frames to be given for the ammunition boxes to rest on. Racks for side arms, entrenching tools, etc., to be fixed to the rear and side walls. Sliding doors to be given. Small ground ventilators in the walls.	24 D & E, R. A. 24 A & B, R. A.
	Gun park store-room	12	52	10			
	(viii) British mountain battery—						
	Gun-shed	48	24	10½	1,963		
80	GYMNASIUM	see	item	30			

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
83	MAGAZINE. (i) Battery, R. H. A. or R. F. A., a howitzer battery, howitzer brigade ammunition column, heavy battery, R. G. A. (in the plains), or a British mountain battery (in the hills).	14	14	14	400	The authorised space (196 sq. ft.) should be divided into two compartments, one for powder and one for tubes, fuzes, etc. Where two or more batteries are located in the same station, one building should suffice, separate compartments of the above dimensions being provided for each.	
	(ii) R. H. A. ammunition column	21	14	14	540	See remarks against (i).	
	(iii) R. F. A. ammunition column	32	24	14	1,140	If convenient, the accommodation may be provided in extension of existing magazine accommodation.	
84	NIGHT PICQUET GUARD ROOM. (i) Battery, R. H. A. or R. F. A. or howitzer battery. 1 room (without verandah.)	...	...	...	...	Should only be constructed if considered necessary by the local authorities. Whenever possible the night picquet should be accommodated in the quarter guard building. When constructed, accommodation should be provided on the scale of 90 sq. feet per man.	
	(ii) R. H. A. ammunition column	20	18	12	500	The night picquets of both columns will be Indian combatants.	
	(iii) R. F. A. ammunition column	30	24	12	910	When two or more columns are located together, one room of sufficient size, allowing 60 sq. feet per man, may be provided.	
	(iv) British mountain battery. Guard room Lock-up 2 cells, each	52 12 8	12 12 12	12 12 12	1,936	A 6' verandah to be given in front. The night picquets will be Indian combatants.	
85	ORDERLY AND COURT-MARTIAL ROOM. In the plains. (i) R. A. head-quarters— 1 room for C. R. A. 1 „ adjutant 1 „ clerks	20 20 20	18 18 18	16 16 16	3,350	A 10' verandah should be given at front, back, and one end.	45 B. I. modified.
	(ii) Battery, R. H. A. or R. F. A., or R. H. A. or R. F. A. ammunition column, howitzer battery, or howitzer brigade ammunition column. 1 room 1 „	24 20	20 12	16 16	2,660	For two or more batteries or ammunition columns the same accommodation will be given to each battery and ammunition column.	
	(d) Urinary— 1 compartment	6½	2½	7	28	Not to be provided if a latrine or urinary exists near.	133 B. I.
	(ii) Heavy battery or company, R. G. A. 1 room 1 „	24 15	15 12	16 16	2,330		
	(d) Urinary	as in	(ii)		28	See remarks above	
	(iv) British mountain battery. 1 room 1 „	15 12	20 20	10 10	1,040	Hill hut type with 9' verandah in front.	
86	(d) Urinary PRAYER ROOM.	as in	(ii)		28	See remarks above. See item 32.	

[illegible]

Appx. V.—Accommodation—Royal Artillery.

79

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
92	SERGEANT'S MESS— <i>contd.</i>	Ft.	Ft.	Ft.	Sq. Ft.		
	(a) Cook-house— Kitchen	14	14	13	614	For a R. F. A. or howitzer brigade ammunition column in addition, the length of the mess-room will be increased 12', and for a R. H. A. ammunition column 9'.	67 B. I. modified.
	Scullery	6	9½	10		With a 7' verandah in front, containing a fuel store 4½' x 6¼'.	
	Cook's room	6	10	10			
	Meat store	6	6	8			
	(b) Latrine— Privy of two seats	10	5½	9	105		67 B. I.
	(d) Urinary— 1 compartment	6½	2½	7	28		
	(ii) Company, R. G. A.— Mess-room	24	15	16	1,926	With a 10' verandah in the clear all round, containing the pantry, caterer's room, beer store and a small lavatory.	67 B. I. modified.
	Caterer's room	21	9½	9½			
	Pantry	8½	9½	9½			
	Beer store	20	9½	9½			
	Subsidiary buildings	as	in	(i)			
	(iii) 2 batteries, R. A., and R. A. Staff— Mess-room	42½	24	16	5,561	With 10' verandah in the clear all round, containing the pantry, caterer's room, beer store and a small lavatory near the ante-room.	67 B. I. modified.
	Ante-room	20	24	16			
	Billiard room	25	24	16			
	Caterer's room	21	9½	9½			
	Pantry	8½	9½	9½		This size will be given for 2 howitzer batteries and the brigade ammunition column. For a R. H. A. ammunition column in addition, the length of the mess-room will be increased 3½' and the billiard room 3'; for a R.F.A. ammunition column in addition, the length of the mess-room will be increased 9½' and the billiard room 7'.	
	Beer store	20	9½	9½			
	Subsidiary buildings	as	in	(i)			
	In the hills.						
	(iv) British mountain battery. Mess-room	24	20	10	1,640	Hill hut type with 9' verandah in front.	
	Beer store	10	9½	10			
	Store-room	10	9½	10			
	Caterer's room	10	11½	10			
	Pantry	10	7	10	594	7' verandah in front containing a fuel store 3½' x 6'.	67 B. I. modified.
	(a) Cook-house— Kitchen	15	12	10			
	Scullery	6	12	10			
	Cook's room	10	6	10			
	(b) Latrine— Of 2 seats	5½	8½	7	108		
	(d) Urinary	as	in	(i)	28		
93	TABLES. (i) Battery, R.H.A. on higher establishment. Two stables each for 56 horses— 4 compartments, each for 9 horses, each		72	14	8,930	The horses of the serjeant major and trumpeters of the R. A. staff will be attached to the batteries at the station. The number of horses is 220.	18 B.C. modified.
	2 compartments each for 10 horses, each		80	14			
	Central passage		229	5			

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.	
91	SCHOOLS—concl'd.	Ft.	Ft.	Ft.	Sq. ft.			
	(d) Urinary— 1 compartment	6½	2½	7	28	For men.	133 B.I.	
	(ii) Howitzer battery. Class room for 40 men	32	24	16	3,460	10' verandah on two sides and at one end. See remarks against (i).		
	" " " 24 children	22	24	16				
	2 water-rooms; each	10	6	11				
	Subsidiary buildings	as	in	(i)				
	(iii) Company, R. G. A. Class room for 20 men	24	22	16	2,730	See remarks against (i). 10' verandah on two sides and at one end. If quarters for the schoolmaster and schoolmistress are added on at the ends, the plinth area is increased by 2,860 sq. ft. Subsidiary buildings for these quarters will also be required.	35 R. A.	
	" " " 20 children	24	18	16				
	2 water-rooms; each	10	6	11				
	Subsidiary buildings	as	in	(i)				
	(iv) 2 batteries, R. H. A. or R. F. A., or heavy batteries, R. G. A., or 2 howitzer batteries with or without a howitzer brigade ammunition column. Class room for 48 men	40	24	16	3,820	See remarks against (i).	71 C, B. I.	
	" " " 30 children	22	24	16				
	2 water-rooms; each	10	6	11				
	Subsidiary buildings	as	in	(i)				
	(v) 3 batteries, R. H. A., R. F. A., or heavy batteries, R. G. A. Class room for 64 men	54	24	16	4,510	See remarks against (i) and (iv).	71 C, B. I.	
	" " " 36 children	22	24	16				
	2 water-rooms; each	10	6	11				
	(b) Latrine— Privy for boys	10½	8½	9	330		71 E, B. I.	
	" " girls	10½	8½	9				
	Urinary for boys	4½	3½					
	Dry earth shed	4½	3½					
	(d) Urinary	as	in	(i)	28	For men.		
	(vi) 4 batteries, R. H. A. or R. F. A. Class room for 80 men	66	24	16	5,260	See remarks against (i) and (iv).	71 B, B. I.	
	" " " 36 children	22	24	16				
	2 water-rooms; each	10	6	11				
	(b) Latrine	as	in	(v)	330			
	(d) Urinary	as	in	(i)	28	For men.		
	In the hills. (vii) British mountain battery. Class room for 20 men	27	20	10	1,720	Hill hut type with 9' verandah in front, containing a fuel store 6' x 2½'. The authorized space is :— One room for men 22' x 24'. " " " children 18' x 24'. 2 water-rooms; each 6' x 10'.	71 E, B. I. modified.	
	" " " 20 children	21	20	10				
	2 water-rooms; each	7½	8	9				
	(b) Latrine— Privy for boys	5½	8½	7	130			
	" " girls	5½	8½	7				
	Urinary for boys	4½	3½					
	Dry earth shed	4½	3½					
	(d) Urinary	as	in	(i)	28	For men.		
92	SERGEANTS' MESS. In the plains. (i) Battery, R. H. A. or R. F. A., or a heavy battery, R. G. A.— Mess-room	24	20	16	2,170	With a 10' verandah in the clear all round, containing the pantry, caterer's room, beer store, and a small lavatory.	67 B. I. modified.	
	Caterer's room	21	9½	9½				
	Pantry	8½	9½	9½				
	Beer store	20	9½	9½				

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
		Ft.	Ft.	Ft.	Sq. ft.		
93	STABLES—conold. (viii) <i>Howitzer brigade ammunition column.</i> Three stables each for 60 horses— 6 compartments, each for 10 horses, each . . . 80 14 Central passage . . . 245 5 One stable for 58 horses . . . as in (iv) (d) 4 urinaries . . . as in (i)				9,550 9,240 48	The number of horses is 238. One for each set of stables.	18 B.C. modified. 133 B. I.
	(ix) <i>Heavy battery (fully horsed).</i> One stable for 68 horses— 4 compartments, each for 12 horses, each . . . 96 14 2 compartments, each for 10 horses, each . . . 80 14 Central passage . . . 277 5 One stable for 66 horses— 4 compartments, each for 12 horses, each . . . 96 14 2 compartments, each for 9 horses, each . . . 72 14 Central passage . . . 269 5 (a) 2 urinaries . . . as in (i)				10,800 10,490 48	The number of horses is 133. One for each set of stables.	18 B. C. modified. Do. 133 B. I.
94	KAHAR'S HUT. For a battery or company, R. A.— Hut for 4 kahars . . . 20 12 10				360	To be built near the quarter guard.	
95	VETERINARY HOSPITAL	see item		33		They will usually be required for drinking water and cook-houses; for the lavatories and the soldiers' gardens; and for the stables, a trough being attached.	3 Misc.
96	WELLS	as required.					
BRITISH INFANTRY IN THE PLAINS.							
97	BARRACKS FOR SINGLE RANK AND FILE. (i) <i>For a battalion.</i> 7 barracks each containing— 1 serjeant's quarter . . . as in item 22 58 men { 1 dormitory for 16 men . . . 60 24 16 3 dormitories for 14 men, each . . . 52½ 24 16 1 store-room . . . 9½ 9 9½ 1 barrack as above but with 2 serjeants' quarters, instead of one. 9 barracks each containing— 2 serjeants' quarters . . . as in item 22 56 men { 4 dormitories for 14 men, each . . . 52½ 24 16 1 store-room . . . 9½ 9 9½				22 16 16 9½ 22 16 9½ 22 16 9½	The rank and file number 956 of whom married men 12 band . . . 20 drummers . . . 16 leaving 908 to be accommodated in single men's barracks; the best arrangement is eight half company barracks for 58 men and 9 for 56 men, including one barrack for the band, which will be the same size as a half company barrack. As the band consists of 1 serjeant, 20 men and 16 drummers, the accommodation given allows room for band practice. In Highland regiments 1 serjeant piper and 5 pipers are additional to the band.	6 A to I, B. I. modified. 6 A to I, B. I. modified.

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
93	STABLES— <i>contd.</i>	Ft.	Ft.	Ft.	Sq. ft.		
	(i) <i>Battery, R. H. A. on higher establishment—concl'd.</i>						
	Two stables each for 54 horses—						
	6 compartments, each for 9 horses, each .	72	14		8,615		
	Central passage .	221	5				
	(d) 4 urinaries of 2 compartments, each .	64	5	7	48	One for each set of stables.	133 B.I. modified.
	(ii) <i>Battery, R. H. A. on lower establishment.</i>					The number of horses is 164.	
	Two stables each for 56 horses.	as	in	(i)	8,930		
	One stable for 52 horses.						
	4 compartments, each for 9 horses, each .	72	14		8,300		
	2 compartments, each for 8 horses, each .	64	14				
	Central passage .	213	5				
	(d) 3 urinaries .	as	in	(i)	48	One for each set of stables.	133 B.I.
	(iii) <i>Battery, R. F. A. on higher establishment.</i>					The number of horses is 168.	
	Three stables each for 56 horses .	as	in	(i)	8,930		
	(d) 3 urinaries .	as	in	(i)	48	One for each set of stables.	133 B.I.
	(iv) <i>Battery, R. F. A. on lower establishment.</i>					The number of horses is 115.	
	Two stables each for 58 horses—						
	2 compartments, each for 9 horses, each .	72	14		9,240		
	4 compartments, each for 10 horses, each .	80	14				
	Central passage .	237	5				
	(d) 2 urinaries .	as	in	(i)	48	One for each set of stables.	133 B.I.
	(v) <i>R. H. A. ammunition column.</i>					The number of horses is 101.	
	One stable for 52 horses.	as	in	(ii)	8,300		
	One stable for 50 horses—						
	4 compartments, each for 8 horses, each .	64	14		7,990		
	2 compartments, each for 9 horses, each .	72	14				
	Central passage .	205	5				
	(d) 2 urinaries .	as	in	(i)	48	One for each set of stables.	13 B. I.
	(vi) <i>R. F. A. ammunition column.</i>					The number of horses is 348.	
	Six stables for 58 horses, each .	as	in	(iv)	9,240		
	(d) 6 urinaries .	as	in	(i)	48	One for each set of stables.	18 B.C. modified. 133 B. I.
	(vii) <i>Howitzer battery.</i>					The number of horses is 167.	
	Three stables each for 56 horses .	as	in	(i)	8,930		
	(d) 3 urinaries .	as	in	(i)	48	One for each set of stables.	18 B.C. modified. 133 B.I.

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
		Ft.	Ft.	Ft.	Sq. ft.		
97	BARRACKS FOR SINGLE RANK AND FILE— <i>concl'd.</i>						
	(a) 2 combined dining halls and kitchens, each containing—					Each for 2 companies.	
	248 { 2 rooms for 124 men { men, each . . .	72½	24	16	10,110	With 10' verandah on 3 sides.	119 B. I. modified.
	1 kitchen . . .	30	18	13		With 7' verandah in front containing 2 fuel stores, each 6½' x 2½'.	
	2 sculleries, each . . .	18½	8	13			
	2 cooks' rooms, each . . .	8	8	8			
	2 meat stores, each . . .	10	8	8		For band barrack.	
	1 combined dining hall and kitchen containing—						
	1 room for 28 men . . .	16½	24	16	2,380	With 10' verandah on 3 sides.	119 B. I. modified.
	1 kitchen . . .	15	18	13		With 7' verandah in front containing 1 fuel store 6½' x 2½'.	
	1 scullery . . .	18½	8	13			
	1 cook's room . . .	8	8	8			
	1 meat store . . .	10	8	8			
	(b) Latrines, 4 of 8 seats, and 1 of 4 seats . . .	as	in	(i)	640	One for each company.	132 B. I.
	(c) Lavatories, 4 large and 1 small . . .	as	in	(i)	200	For the band.	
	(d) Urinaries, 9 . . .	as	in	(i)	1,120	One for each company.	138 B. I.
	(iii) For the detached wing.				600	For the band.	
	4 barracks each containing—				48	See remarks against (i) (d).	133 B. I.
	1 serjeant's quarter . . .	as in item		22			
	52 men { 2 dormitories for 14 men, each . . .	52½	24	16	11,680	The strength of a detached wing is 422 rank and file, of whom five are married leaving 417 single men; this gives 8 barracks for 52 men each.	6 A to I. B. I. modified.
	2 dormitories for 12 men, each . . .	45	24	16			
	4 barracks containing—						
	2 serjeants' quarters . . .	as in item		22	12,600	Each for 2 companies.	
	Dormitories for 52 men . . .	as above					
	(a) 2 combined dining halls and kitchens, each containing—						
	208 { 2 rooms for 104 men { men, each . . .	60½	24	16	8,975	With 10' verandah on 3 sides.	119 B. I. modified.
	1 kitchen . . .	30	18	13		With 7' verandah in front containing 2 fuel stores, each 6½' x 2½'.	
	2 sculleries, each . . .	18½	8	13			
	2 cooks' rooms, each . . .	8	8	8			
	2 meat stores, each . . .	10	8	8			
	(b) Latrines, 4 of 8 seats . . .	as	in	(i)	640	One for each company.	132 B. I.
	(c) Lavatories, 4 large . . .	as	in	(i)	1,120	Ditto.	138 B. I.
	(d) Urinaries, 8 . . .	as	in	(i)	48	See remarks against (i) (d).	133 B. I.
98	BARRACKS FOR MARRIED RANK AND FILE.						
	(i) For a battalion—						
	One block of 12 class B quarters . . .	as in item	21 (i)		16,352	The family quarters to be provided are $\frac{1.25 \times 956}{100}$, say 12 quarters.	
	(a) Cook-houses . . .	as in item	21	(i) (a)			
	(b) Latrines—	see para.	28				
	(d) Urinaries, 2—						
	1 compartment, each . . .	6½	2½	7	28		132 B. I. modified.

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate	Remarks.	Type plan and series.
		Ft.	Ft.	Ft.	Sq. ft.		
97	BARRACKS FOR SINGLE RANK AND FILE— <i>contd.</i>						
	(a) 4 combined dining halls and kitchens, each containing—					One for two companies.	
	227 { 2 rooms for men { 114 men, each . . .	66½	24	16	9,540	With 10' verandah on 3 sides.	119 B. I.
	1 kitchen . . .	30	18	13		With 7' verandah in front containing 2 fuel stores each 6' x 2½'.	
	2 sculleries, each . . .	18½	8	13			
	2 cooks' rooms, each . . .	8	8	8			
	2 meat stores, each . . .	10	8	8		For the band.	
	1 combined dining hall and kitchen containing—						
	1 room for 36 men . . .	21	24	16	2,600	With 10' verandah on 3 sides.	
	1 kitchen . . .	15	18	13		With 7' verandah in front containing 1 fuel store 6½' x 2½'.	110 B. I. modified.
	1 scullery . . .	18½	8	13			
	1 cook's room . . .	8	8	8			
	1 meat store . . .	10	8	8			
	(b) Latrines 8, each containing—						
	Privy of 8 seats . . .	21½	12	9	640	One for each company.	132 B. I.
	Cart-shed . . .	11	8	7			
	Sweeper's room . . .	8	6	7½			
	Dry earth shed . . .	5½	4	4½			
	One latrine—						
	Privy of 4 seats . . .	11	12	9	200	For the band barrack.	132 B. I. modified.
	(c) Lavatories 8, each containing—						
	Room for 20 basins . . .	30	16	9	1,120	One for each company.	138 B. I.
	8 private bath-rooms . . .	6½	5	9			
	One lavatory—						
	Room for 10 basins . . .	15	16	9	600	For the band barrack.	138 B. I. modified.
	4 private bath-rooms . . .	6½	5	9			
	(d) Urinaries, 17—						
	Of 2 compartments, each . . .	6½	5	7	48	One for each half company barrack and for the band barrack; they may be combined, if convenient.	133 B. I.
	(ii) For a head-quarter wing.						
	Band barrack containing—					The strength of a head-quarter wing in rank and file is 534, of whom married men number 7, band 20, drummers 8=35, leaving single men 499; allow 8 half company barracks for 62 each, and 1 for the band for 48 men.	6 A to I, B. I. modified.
	1 serjeant's quarter . . .	as in item	22		10,880		
	48 { 3 dormitories for men { 16 men, each . . .	60	24	16			
	1 store-room . . .	9½	9	9½			
	5 barracks, each containing—						
	2 serjeant's quarters . . .	as in item	22		14,420		6 A to I, B. I. modified.
	62 { 3 dormitories for men { 16 men, each . . .	60	24	16			
	1 dormitory for 14 men . . .	52½	24	16			
	1 store-room . . .	9½	9	9½			
	3 barracks, each containing—						
	1 serjeant's quarter . . .	as in item	22		13,500		6 A to I, B. I. modified.
	Dormitories for 62 men—	as above					

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
98	BARRACKS FOR MARRIED RANK AND FILE— <i>concl'd.</i>	Ft.	Ft.	Ft.	Sq. ft.		
	(i) <i>For a head-quarter wing.</i>					The family quarters to be provided are $\frac{1.25 \times 534}{100}$ say 7 quarters.	
	One block of 7 class B quarters . . .	as in item	21 (i)	21	10,083		
	(a) Cook-houses . . .	as in item	21	21	(i) (a)		
	(b) Latrines—	see para.	28	28		For the two blocks.	132 B. I. modified.
	(d) Urinaries, 2— 1 compartment, each .	6½	2½	7	28	One for each block.	133 B. I.
	(iii) <i>For a detached wing.</i>					The family quarters to be provided are $\frac{1.25 \times 422}{100}$, say 5 quarters.	
	One block of 5 class B quarters . . .	as in item	21 (i)	21	7,566		
	(a) Cook-house—	as in item	21	21	(i) (a)		
	(b) Latrines—	see para.	28	28			
	(d) Urinary— 1 compartment . . .	6½	2½	7	28		132 B. I. modified. 133 B. I.
99	WARRANT OFFICERS' QUARTERS.						
	For a battalion or a head-quarter wing— 4 class D quarters with outhouses .	as in item	19	19	2,320	1 for the serjeant-major . 1 „ „ bandmaster. 1 „ „ schoolmaster. 1 „ „ schoolmistress.	
100	QUARTERS FOR STAFF SERJEANTS AND SERJEANTS.						
	(i) <i>For a battalion—</i>						
	One block containing— 1 class A and 8 class B quarters . . .	as in items (i) and 21 (i)	20 and 21 (i)	20 and 21 (i)	13,045	The number of staff serjeants and serjeants is 48, of whom 36 per cent. or 17 are to be provided with married quarters. Quarters are allowed for 27 serjeants in the ends of single men's barracks, and serjeants will also be accommodated in the officers' mess, the provost serjeant's, canteen serjeant's and caterer's quarters.	
	One block of 8 class B quarters . . .	as in item	21 (i)	21	11,319		
	(a) Cook-houses—	as in item	21	21	(i) (a)		
	(b) Latrines—	see para.	28	28		Suitably placed for the 2 blocks.	132 B. I. modified.
	(ii) <i>For a head-quarter wing.</i>					The number of staff serjeants and serjeants is 28, of whom 36 per cent. or 10 are to be provided with married quarters. The remainder are allowed for in 14 quarters at the end of barracks, and in the special quarters as detailed against a full battalion.	
	One block containing 1 class A, and 9 class B quarters . . .	as in items (i) and 21 (i)	20 and 21 (i)	20 and 21 (i)	14,326		
	(a) Cook-house—	as in item	21	21	(i) (a)		
	(b) Latrines—	see para.	28	28			132 B. I. modified.

Appx. V.—Accommodation—B. I. in the hills.

Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
	Ft.	Ft.	Ft.	Sq. ft.		
BARRACKS FOR SINGLE RANK AND FILE—concl'd.						
(a) 4 combined dining halls and kitchen, each containing—					One for 2 companies.	
2 dining halls, each	52	22	10	4,360	No verandahs With 7' verandah in front, containing 2 fuel stores 6' x 3½' each.	9 hutted camp.
1 kitchen	28	16	10			
2 sculleries, each	12	8	9			
2 meat stores, each	10	8	8			
2 cooks' rooms, each	8	8	8			
1 dining hall and kitchen containing—					For band barrack.	
1 dining hall	16½	22	10	1,285	No verandahs With 7' verandah in front containing fuel store 6' x 3½'.	9 hutted camp.
1 kitchen	14	16	10			
1 scullery	12	8	9			
1 cook's room	8	8	8			
1 meat store	8	8	8			
(b) Latrine 17, each containing—						
Privy of 5 seats	13	8½	7	260	One for each half-company.	132 B.I. modified.
Sweeper's room	8	5	7			
Dry earth bin	5	3				
(c) Lavatories 17, each containing—						
1 room for 10 basins	13½	14	8	390	Do. do.	138 B.I. modified.
2 private bath-rooms	5½	4½	8			
(d) Urinaries 17, each of 2 compartments.	6½	5	7	48	Do. do.	133 B.I.
(ii) For a head-quarter wing.						
5 half-company huts with open verandahs each to hold—					The number of rank and file in a head-quarter wing is 534, of whom band and drummers number 28 and married men 7, leaving 499 single men; this gives 124 men per company.	1 hutted camp.
3 dormitories, for 16 men, each	48	22	10	7,220		
1 dormitory for 14 men	42	22	10			
2 serjeants' quarters	as in item		22			
3 half-company huts with one instead of two serjeants' quarters	as	above		6,710				1 hutted camp.
Band barrack with open verandahs—						
3 dormitories for 16 men, each	48	22	10	5,320	One for 2 companies	9 hutted camp.
1 serjeant's quarter	as in item		22			
(a) 2 dining halls and kitchens	...	...	...	...
As in (i) (a) but dining halls 56½' long, each	...	...	...	4,590		
combined dining hall and kitchen to hold—	...	...	...	...	For band barrack.	
1 room for 28 men	13	22	10	1,195	No verandahs With 7' verandah in front containing fuel store 6' x 3½'.	9 hutted camp modified.
1 kitchen	14	16	10			
1 scullery	10	8	9			
1 cook's room	8	8	8			
1 meat store	8	8	8			
(b) Latrines, 9	as in (i)			260	One for each half-company and one for the band.	
(c) Lavatories, 9	as in (i)			390		
(d) Urinaries, 9	as in (i)			48		

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
		ft.	ft.	ft.	Sq. ft.		
116	QUARTERMASTER'S STORES— <i>conold.</i>						
	(iii) For a detached wing. As in (i) but one store-room instead of three.				2,670	See remarks against (i).	
116	(d) Urinary	as	in	(i)	28	See remarks against (i) (d).	
	REGIMENTAL WORKSHOPS, VOLUNTARY.						
	(i) For a battalion.						
	Carpenter's shop . . .	50	22	16	7,789		69 B. I.
	" store-room . . .	21	12	9			
	Painter's shop . . .	22	22	16			
	Tinsmith's shop . . .	22	14	16			
	Shoemaker's shop . . .	22	22	16			
	Bookbinder's shop . . .	11	10½	16			
	Watchmaker's shop . . .	14	10½	16			
	Printer's shop . . .	25	22	16	5,890		69 B. I. modified.
	2 water-rooms, each . . .	8	8	9			
	(d) Urinary—						
	2 compartments . . .	6½	5	7	48	Not to be provided if a latrine or urinary exists near.	133 B. I.
	(ii) For a head-quarter wing.						
	Carpenter's shop . . .	33½	22	16	5,890		69 B. I. modified.
	" store-room . . .	41	8	9			
	Painter's shop . . .	14½	22	16			
	Tinsmith's shop . . .	9½	22	16			
	Shoemaker's shop . . .	14½	22	16			
	Bookbinder's shop . . .	9½	10½	16			
	Watchmaker's shop . . .	9½	10½	16			
	Printer's shop . . .	16½	22	16	5,460		69 B. I. modified.
	2 water-rooms, each . . .	8	8	9			
	(d) Urinary—						
	1 compartment . . .	6½	2½	7	28	As against (i) (d).	133 B. I.
	(iii) For a detached wing.						
	Carpenter's shop . . .	30	24	16	5,460		69 B. I. modified.
	Painter's shop . . .	12	24	16			
	Tinsmith's shop . . .	12	24	16			
	Shoemaker's shop . . .	12½	24	16			
	Bookbinder's shop . . .	12	24	16			
	Printer's shop . . .	14	12	16			
	Water-room . . .	10	24	16			
	(d) Urinary . . .	as	in	(ii)	28	As against (i) (d).	
117	RIFLE RANGE . . .	see	para.	49			49 A to C, B. I.
118	SCHOOL—						
	(i) For a battalion.						
	Class room for 120 men . . .	92	24	16	7,630	See para. 41.	71 A, B. I.
	Class room for 64 children . . .	36	24	16			
	2 water-rooms, each or with quarters for the schoolmaster and mistress attached . . .	6	10	9½			
					9,400	Subsidiary buildings for these quarters as laid down for class A sergeants.	
	(b) Latrine—						
	Privy for boys, 4 seats . . .	11	10½	9	400		71 B, B. I.
	" " girls, 4 " . . .	11	10½	9			
	Urinary for boys . . .	4½	3½				
	Dry earth shed . . .	4½	3½				
	(d) Urinary—						
	2 compartments . . .	6½	5	7	48	For men.	133 B. I.

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
		Ft.	Ft.	Ft.	Sq. ft.		
124	<p>QUARTERS FOR STAFF SERJEANTS AND SERJEANTS—concl'd.</p> <p>(i) For a battalion—concl'd.</p> <p>Two blocks, each containing 5 class B quarters . . . as in item 21 (ii) 3,872</p> <p>(a) Cook-houses—1 for each quarter . . . as in 122 (i) (a) 136</p> <p>(b) Latrines . . . see para. 28</p> <p>(ii) For a head-quarter wing.</p> <p>One block of 1 class A and 4 class B quarters. (ii) and 21 4,136</p> <p>One block of 5 class B quarters. (ii) 21 3,872</p> <p>(a) Cook-houses—1 for each quarter see para. 24. as in (i) 136</p> <p>(b) Latrines . . . see para. 28.</p> <p>(iii) For a detached wing.</p> <p>One block of 7 class B quarters . . . as in item 21 (ii) 5,367</p> <p>(a) Cook-houses . . . as in (i) 136</p> <p>(b) Latrines . . . see para. 28</p>					<p>See para. 24 . . . 10 hutted camp.</p> <p>Suitably placed for the 3 132 B.I. modified.</p> <p>There are 28 staff serjeants and serjeants, of whom 36 per cent, or 10 are to be provided with family quarters. 1 hutted camp.</p> <p>The remainder will be housed in the 14 quarters, in the single men's barracks and in the officers' mess, canteen serjeant's quarter, quarter guard, and institute quarters. 1 hutted camp.</p> <p>Suitably placed for the two blocks. 10 hutted camp.</p> <p>The number of serjeants is 20, of whom 36 per cent, or 7 are to be provided with family quarters. The remaining 13 serjeants will be housed in the 12 quarters at the end of the single men's barracks and in one of the institute quarters. 132 B. I. modified.</p> <p>One each for the serjeant major, band master, schoolmaster and schoolmistress ; the two latter should, however, be provided, if possible, under the same roof as the school ; the two other quarters may be combined in one block, if desirable. 1 hutted camp.</p>	
125	<p>QUARTERS FOR WARRANT OFFICERS.</p> <p>For a battalion or head-quarter wing.</p> <p>4 quarters . . . as in item 19(ii) 4,324</p> <p>(a) 4 cook-houses . . . do. do. 136</p> <p>(b) 4 latrines . . . do. do. 70</p>					<p>No verandahs to be given ; type plans for the plains to be generally followed, modified to suit the hills ; see para. 45.</p>	
126	<p>ARMOURERS' SHOP.</p> <p>For a battalion or a wing.</p> <p>Shop . . . 15 20 10</p> <p>Forge . . . 12 20 10</p> <p>Water and wood stores . . . 8 10 10</p> <p>Drying room . . . 10 10 10</p>				1,000	<p>A verandah 8' wide is to be given on one side.</p>	41 A to C, B. I.
127	<p>BLACKSMITH'S FORGE AND WORKSHOP VOLUNTARY.</p> <p>For a battalion or a wing.</p> <p>Forge . . . 15 20 10</p>				590		
128	RECREATION GROUND . . . see para. 51						
129	DRY EARTH STORE . . . see para. 31						
130	GYMNASIUM . . . see item 30						

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
119	SERGEANTS' MESS.	ft.	ft.	ft.	Sq. ft.		
	(i) For a battalion.						
	Mess-room	30	24	16	6,656	A 10' verandah in the clear all round, containing the beer store, caterer's quarter, pantry, and a lavatory 9½' x 12' near the ante-room.	67 B. I.
	Ante-room	30	24	16			
	Billiard room	30	24	16			
	Beer store	24	9½	9½			
	Caterer's room	24	9½	9½			
	Pantry	8½	9½	9½			
	(a) Cook-house—						
	Kitchen	18	18	13	820	With a 7' verandah in front, containing a fuel store 6½' x 4½'.	67 B. I.
	Scullery	13½	6	13			
	Cook's room	10	6	8			
	Meat store	6	6	8			
	(b) Latrine						132 B. I.
	Privy of 2 seats	10	6½	9	100		modified.
	(c) Urinary—						133
	1 compartment	6½	2½	7	28		B. I.
	(ii) For a comp.						
	Mess-room	30	24	16	5,109	A 10' verandah in the clear all round, containing the beer store, caterer's room, pantry and a small lavatory near the ante-room.	67 B. I. modified.
	Ante-room	30	24	16			
	Billiard room	28	24	16			
	Beer store	24	9½	9½			
	Caterer's room	24	9½	9½			
	Pantry	8½	9½	9½			
	Subsidiary buildings	as	in	(c)			
120	KAHARI' HUT.						
	For a battalion or wing.					To be built near the quarter guard.	
	Hut for 4 Lahars	20	12	10	360		
121	WELLS	as	required.			See para. 50.	
	BRITISH INFANTRY IN THE HILLS.						
122	BARRACKS FOR SINGLE RANK AND FILE.						
	(i) For a battalion.						
	9 half-company huts with open verandahs, each containing—						
	56 men { 4 dormitories for 14 men, each	42	22	10	6,640	The number of rank and file in a battalion is 956, of which band and drummers number 36, and married men 12, leaving 908 men to be accommodated in single men's barracks; this gives 114 men per company.	1 hutted camp.
	2 sergeants' quarters as in item			23			
	7 half-company huts with open verandahs, each containing—						
	58 men { 3 dormitories for 14 men, each	42	22	10	6,330	The band are to have a separate barrack, equal in size to a half-company barrack, in which case no special provision is necessary for a band practice room. Nine half-company huts (including one for the band) for 56 men and 8 half-company huts for 58 men are therefore required.	1 hutted camp.
	1 dormitory for 16 men	48	22	10			
	1 sergeant's quarter	as in item	22				
	1 half-company hut with open verandahs, 58 men	as above			6,830		1 hutted camp.
	2 sergeants' quarters	as in item	22				

Appx. V.—Accommodation—B. I. in the hills.

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
		Ft.	Ft.	Ft.	Sq. ft.		
32	MAGAZINE. (i) For a battalion. S. A. ammunition room.	16	16	16	480	See para. 47. This will usually be provided for in the central station magazine. If so, a small expense store to hold 60 boxes of ammunition will be provided in the lines.	
	(ii) For a wing. S. A. ammunition room.	16	10	16	340		
33	ORDERLY AND COURT-MARTIAL ROOMS— (i) For a battalion. Orderly-room.	18	20	10	2,230	Hut type; 9' verandah in front.	1 hutted camp note.
	Court-martial room	24	20	10			
	Pay office	18	20	10			
	2 bath-rooms, each	6	7	7			
	(d) Urinary— 1 compartment.	6½	2½	7	28	Not to be provided if a latrine or urinary exists near.	133 B. I.
	(ii) For a head-quarter wing. Orderly room	15	20	10	1,940	See remarks against (i).	1 hutted camp, modified.
	Court-martial room	24	20	10			
	Pay office	12	20	10			
	2 bath-rooms, each	6	7	9			
	(d) Urinary	as in	(i)	(d)	28	See remarks against (i) (d).	
	(iii) For a detached wing. As in (ii) but without the pay office				1,560	See remarks against (i).	1 hutted camp, modified.
	(d) Urinary	as in	(i)	(d)	28	See remarks against (i) (d).	
134	PARADE GROUND	no	size	laid	down.		
135	PRAYER ROOM	see	item	32			
136	QUARTER GUARD AND DETENTION ROOMS. (i) For a battalion. Guard room for 18 men	54	20	10	3,790	Hut type; 9' verandah in front.	64 A to D, B. I. modified.
	Guard detention room for 14 men	42	20	10			
	Provost sergeant's quarter	as in	item	22			
	10 barrack detention rooms, each	10	10	13	2,460	Hut type is not suitable. Verandah in front of barrack detention rooms to be 7½' wide. If barrack detention rooms are used in winter, warming apparatus is to be provided.	
	(b) Latrines— 2 privies each of 3 seats, each	8½	8½	7	290		64 B, B. I. modified.
	Covered passage for sentry	9½	4½	7			
	(c) Lavatory— 1 room for 10 basins	13½	14	8	390		64 B, B. I. modified.
	2 private bath-rooms	5½	4½	8			
	(d) Urinary— 2 compartments	6½	5	7	48		133 B. I.
	(ii) For a head-quarter wing. Guard room for 12 men	28	20	10	2,810	See remarks against (i).	64 A to D, B. I. modified.
	Guard detention room for 10 men	30	20	10			
	Provost sergeant's quarter	as in	item	22			
	6 barrack detention rooms, each	10	10	13	1,490	See remarks against (i).	64 B, B. I. modified.

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
		Ft.	Ft.	Ft.	Sq. ft.		
139	RIFLE RANGE . . .	see para.		49			
140	SCHOOL.						
	(i) For a battalion.					See para. 41.	
	Class rooms for 120 men.	60	20	10	5,280	For the actual accommodation authorized, which is the same in the hills as for the plains, see item 118. See also item 125 for the accommodation allowed for the school-master and school-mistress. The sizes here given are suitable to the hill type; a 9' verandah to be given in front containing a fuel store 6' x 2½'.	71 E, B. I. modified.
	Class room for 64 children . . .	54	20	10			
	2 water-rooms, each . . .	42	20	10			
		7½	8	9			
	(b) Latrine—						
	Privy for boys, 4 seats	10½	8½	7	300		
	„ „ girls, 4 „	10½	8½	7			
	Urinary for boys . . .	4½	3½	...			
	Dry earth shed . . .	4½	3½	...			
	(d) Urinary—						
	2 compartments . . .	6	5	7	48	For men.	133 B. I.
	(ii) For a head-quarter wing.						
	Class room for 80 men.	42	20	10	3,720	See remarks against (i).	
	Class room for 36 children . . .	36	20	10			
	2 water-rooms, each . . .	30	20	10			
		7½	8	9			
	(b) Latrine—						
	Privy for boys, 3 seats	8	8½	7	230		
	„ „ girls, 3 „	8	8½	7			
	Urinary for boys . . .	4½	3½	...			
	Dry earth shed . . .	4½	3½	...			
	(d) Urinary . . .	as	in (i)	(d)	48	For men.	
	(iii) For a detached wing.						
	Class room for 64 men	60	20	10	3,090	See remarks against (i).	
	„ „ „ 36 children . . .	30	20	10			
	2 water-rooms, each . . .	7½	8	9			
	Subsidiary buildings . . .	as	in	(ii)			
41	SERGEANTS' MESS.						
	(i) For a battalion.						
	Mess-room . . .	40	20	10	4,010	Hut type; 9' verandah in front containing the pantry and a small lavatory near the ante-room.	1 hutted camp.
	Ante-room . . .	28	20	10			
	Billiard room . . .	24	20	10			
	Caterer's room . . .	10	20	10	657	7' verandah in front containing a fuel store 3½' x 6'.	67 B. I. modified.
	Beer store . . .	10	20	10			
	Pantry . . .	7½	10	9			
	(a) Cook-house—						
	Kitchen . . .	20	12	10	100		132 B. I. modified.
	Scullery . . .	6	12	10			
	Cook's room . . .	10	6	10			
	(b) Latrine—						
	Privy of 2 seats . . .	5½	8½	7	28		133 B. I.
	(d) Urinary—						
	1 compartment . . .	6½	2½	7			
	(ii) For a wing.						
	Mess-room . . .	24	20	10	3,482	See remarks against (i).	1 hutted camp.
	Ante-room . . .	28	20	10			
	Billiard room . . .	24	20	10			
	Caterer's room . . .	10	20	10	320	To be built near the quarter-guard.	
	Beer store . . .	10	20	10			
	Pantry . . .	7½	10	9			
	Subsidiary buildings . . .	as	in	(i)			
142	KAHARS' HUT.						
	For battalion or wing.						
	Hut for 4 kahars . . .	20	10	8			

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
		Ft.	Ft.	Ft.	Sq. ft.		
131	INSTITUTE.					For other portions of the institute see item 31.	...
	(i) For a battalion.						
	Liquor bar portion—					The authorized area, exclusive of bath-rooms and open verandahs, is 2,144 sq. ft.	1 hutted camp.
	Privates' room	45	20	10	4,820		
	Bar or issue room	10	20	10			
	Beer store	19	20	10			
	Corporals' room	20	20	10			
	Serjeant's quarter	as in item	22				
	Theatre	75	20	10	...	.....
	(a) Latrine—						
	Privy of 1 seat	4	3		40	.....	132 B.I.
	(b) Urinary—						
	2 compartments	6½	5	7	48	.....	133 B.I.
	(ii) For the head-quarters and six companies of a battalion.						
	Liquor bar portion—					The authorized area, exclusive of bath-rooms and open verandahs, is 1,724 sq. ft.	1 hutted camp, modified.
	Privates' room	33	20	10	4,000		
	Bar or issue room	10	20	10			
	Beer store	18	20	10			
	Corporals' room	12	20	10			
	Serjeant's quarter	as in item	22				
	Theatre	63	20	10			
	Subsidiary buildings	as in (i)					
	(iii) For a head-quarter wing.						
	Liquor bar portion—					The authorized area, exclusive of bath-rooms and open verandahs, is 1,484 sq. ft.	1 hutted camp, modified.
	Privates' room	25	20	10	3,510		
	Bar or issue room	24	20	10			
	Beer store	12	20	10			
	Corporals' room	12	20	10			
	Sergeant's quarter	as in item	22				
	Theatre	41	20	10	...	.....	...
	(b) Latrine	as in (i)			...	.....	...
	(d) Urinary—						
	1 compartment	6½	2½	7	28	.....	133 B. I. modified.
	(iv) For a detached wing.						
	Liquor bar portion—					The authorized area, exclusive of bath-rooms and open verandahs, is 1,404 sq. ft.	1 hutted camp.
	Privates' room	23	20	10	3,380		
	Bar or issue room	22	20	10			
	Beer store	12	20	10			
	Corporals' room	12	20	10			
	Serjeant's quarter	as in item	22				
	(b) Latrine	as in (i)			...	.....	...
	(d) Urinary	as in (iii)			...	.....	...
	(v) For a detachment of 2 companies.						
	Liquor bar portion—					The authorized area, exclusive of bath-rooms and open verandahs, is 698 sq. ft.	1 hutted camp.
	Privates' room	18	20	10	1,760		
	Bar and issue room	18	10	10			
	Beer store	18	8½	10			
	Corporals' room	as in (i)			...	.....	...
	(b) Latrine—	as in (ii)			...	.....	...
	(d) Urinary	as in (ii)			...	.....	...
131A	LAUNDRY STORE.						
	(i) For a battalion.						
	1 dirty clothing room	25	13	13½	918	.....	74 B. I.
	1 making up room	30	13	13½			
	(ii) For less than a battalion, but not less than a company.						
	1 dirty clothing room	15	13	13½	605	.....	74 B. I.
	1 making up room	20	13	13½			

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and area.
		Ft.	Ft.	Ft.	Sq. ft.		
142	HOSPITAL FOR SOLDIERS' FAMILIES.					For scale of accommodation see para. 62.	
	(i) <i>In the plains.</i>					For hospitals for under 500 troops, 1 bath and 1 ablution rooms only to be provided. For hospitals for over 500 and under 1,500 troops, 2 bath and 2 ablution rooms only to be provided. One bath-room for matron to be given also in each hospital.	
	Block for 2,000 troops and over—						
	Ward for 8 beds . . .	40	24	18	8,750	10' verandah in front and back and 12' verandah at ends. Back verandah to contain 4 bath-rooms, each 9½' x 7½', one of which is for the matron.	3 Hospl. 1, B. to F., Hospl.
	3 lying-in wards, each . . .	15	24	18			
	Matron's sitting room . . .	18	24	18			
	Matron's bed room . . .	12	24	18			
	Gynæcological and out-patient ward . . .	12	24½	10½	530	In end verandahs.	
	Washing room . . .	12	8	10½			
	3 private ablution rooms, each . . .	8	6½	10½			
	Scullery . . .	10	10	10			
	Isolation ward . . .	12	16	16	630	For cleaning feeding utensils. In an annexe connected with main block by covered passage 10' x 5'. Not to be given for hospitals under 1,500 troops. In an annexe connected with main block by covered passage 7' x 5½'. 3' verandah in front. The central cook-house serves the family hospital also.	
	Bath room . . .	9	7	10			
	Attendants' room . . .	12	10	16			
	Lamp-room . . .	15½	12	9			
	Linen store . . .	8	12	9	143	(i)	
	Patients' clothing room . . .	8	12	9			
	(a) Cook-house—						
	For hospital . . .	see	item	143			
	For matron . . .	10	8	10			
	(ii) <i>In the hills.</i>						
	Block for 12 beds—						
	1 ward for 8 beds . . .	41	20	10	4,202		1 hutted camp, and 3 Hospl. modified.
	2 wards for 2 beds, each . . .	12	20	10			
	Lying-in ward, 2 beds . . .	12	20	10			
	Attendants' room . . .	12	20	10			
	Matron's quarter . . .	as in	item	21			
	(c) Lavatory for 5 basins and 3 bath-rooms in end verandah.			(ii)			
	(a) Cook-house . . .	see	(i)	(a)			
	(b) Latrine (for 12 patients)—						
	Privy of 3 seats . . .	11½	8½	7	190		
	Passage . . .	10	5	7			
145	OFFICERS' WARDS . . .	see	para.	65.			
146	Operating room—						
	Operating theatre . . .	18	18	16	190	See para. 66. See also para. 67.	5 Hospl.
	Sterilizing room . . .	12½	8	10			
	Annexe for sterilizers . . .	5½	8	10			
	Anæsthetizing room . . .	11	7	10			
147	HOSPITAL FOR CONTAGIOUS DISEASES.	see	para.	67.			

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.	
136	QUARTER GUARD AND DETENTION ROOMS— <i>conold.</i> (ii) <i>For a head-quarter wing—conold.</i> (b) Latrine— 2 privies each of 2 seats, each . . . Covered passage for sentry . . . (c) Lavatory— Room for 8 basins . . . 2 private bath-rooms, each . . . (d) Urinary . . . (iii) <i>For a detached wing</i> Guard room for 12 men . . . Guard detention rooms for 8 men . . . 4 barrack detention rooms, each . . . Subsidiary buildings . . .	Ft.	Ft.	Ft.	Sq. ft.			
		5½	8½	7	210		64 B, B. I. modified.	
		6½	4½	7				
		11	14	8	320		64 B, B. I. modified.	
		5½	4½	8				
		as in	(i)	(d)	48			
		30	20	10	2,110	See remarks against (i).	64 A to D, B. I., modified.	
		24	20	10				
		10	10	13	1,010	See remarks against (i).		
		as in	(ii)	(i)				
137	QUARTERMASTER'S STORES. (i) <i>For a battalion.</i> Store-room . . . Store-room . . . Quartermaster's office . . . Tailor's workshop . . . Dry store . . . (d) Urinary— 1 compartment . . . (ii) <i>For a head-quarter wing.</i> Store-room . . . Quartermaster's office . . . Tailor's workshop . . . Dry store-room . . . (d) Urinary . . . (iii) <i>For a detached wing</i> Store-room . . . Quartermaster's office . . . Tailor's workshop . . . Dry store-room . . . (d) Urinary . . .							
		42	20	10	2,900	Hut type, no verandahs.		
		36	20	10				
		10	20	10				
		14	20	10				
		12	20	10				
		6½	2½	7	28	Not to be given if a latrine or urinary exists near.	133 B.	
		50	20	10	2,210	See remarks against (i).		
		10	20	10				
		14	20	10				
		12	20	10				
		as in	(i)	(i)	28	See remarks against (i) (d).		
		25	20	10	1,620	See remarks against (i).		
		10	20	10				
		14	20	10				
		12	20	10				
		as in	(i)	(i)	28	See remarks against (i) (d).		
138	REGIMENTAL WORKSHOPS, VOLUNTARY. (i) <i>For a battalion.</i> Carpenter's shop . . . Painter's " . . . Tinsmith's " . . . Shoemaker's " . . . Bookbinder's " . . . Watchmaker's " . . . Printer's " . . . (d) Urinary— 2 compartments . . . (ii) <i>For a wing.</i> Carpenter's shop . . . Painter's " . . . Tinsmith's " . . . Shoemaker's " . . . Bookbinder's " . . . Watchmaker's " . . . Printer's " . . . (d) Urinary— 1 compartment . . .							
		37	20	10	3,550	Hut type, 6' verandah in front.		
		16	20	10				
		10	20	10				
		16	20	10				
		12	9½	10				
		12	9½	10				
		18	20	10				
		6½	5	7	48	Not to be given if a latrine or urinary exists near.	133 B. i.	
		24	20	10	2,630	See remarks against (i).		
		10	20	10				
		10	20	10				
		10	20	10				
		12	9½	10				
		12	9½	10				
		12	20	10				
		6½	2½	7	28	See remarks against (i) (d).	133 B. I.	

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
149	<p>QUARTER FOR LADY NURSES—<i>concl'd.</i> (ii) <i>In the hills.</i> Block of 4 quarters— 4 rooms each 4 bath-rooms in verandah, each Common dining room " sitting " Store-room Pantry-room Subsidiary buildings</p>	Ft.	Ft.	Ft.	Sq. ft.	<p>No scale is laid down for the hills; but the one quoted here gives the areas sanctioned at Quetta and should be sufficient.</p> <p>Coach-houses will, however, rarely be required in the hills. The height of the servants' quarters can be reduced to 8 ft.</p>	
		16	13		3,980		
		8	6				
		16	16½				
		16	16½				
		13	10				
		13	8½				
		as	in	(i)			
150	<p>QUARTERS FOR COMMISSIONED AND WARRANT OFFICERS OF THE I. S. M. D.</p>	For sizes of authorized quarters	8	10	See items	<p>The numbers and ranks of the medical subordinates to be provided with quarters in each hospital will be decided by the A. D. M. S. of the Division or Independent Brigade. See remark against item 10.</p>	
151	<p>QUARTERS FOR SUB-ASSISTANT SURGEONS. <i>In the plains or hills.</i> (i) <i>Senior sub-assistant surgeons and sub-assistant surgeons, 1st grade.</i></p>					<p>A sub-assistant surgeon is authorized for each regiment of cavalry and to each battery of artillery (horse, field), howitzer, heavy or mountain, also for each departmental followers' hospital.</p>	
	<p>Room " Bath-room Verandah Enclosure wall of court-yard Shed for cooking-pots, etc. (b) Latrine</p>	16 12 8½ 29½ 46 7½ 6	12 12 6 6 1½ 5 5	12 12 8½ 8½ 8 8½ 8½	760	<p>A portion of the verandah of each quarter is to be divided off, to form a cooking-place at one end. In the hills the height of the main rooms will be reduced to 10' and if the site will not admit of it, the court-yard may be omitted.</p>	11 I. I.
					70		
					120	<p>An open court-yard 29½' × 17½' containing the latrine and shed for cooking-pots, water, etc.</p>	
	<p>(ii) <i>Sub-assistant surgeons, 2nd and 3rd grades—</i> Room Bath-room Verandah Enclosure wall of court-yard (a) Shed for cooking pots, etc. (b) Latrine</p>	16 8 16 61½ 7½ 6	12 6 6 1½ 5 5	12 8½ 8½ 8 8½ 8½	480	<p>See remarks against (i)</p>	11 I. I.
					90	<p>An open court-yard 32' × 16' containing the latrine and shed for cooking-pots, water, etc.</p>	
					120		
152	<p>QUARTERS FOR HOSPITAL SERVANTS. As in item 174, in separate blocks for married and single men, the number of married quarters being regulated by the scale of married establishment authorized in A. R., I., Vol. II.</p>	...	...	...	...	<p>Quarters to be provided for— (i) <i>A. H. Corps.</i> (a) Poona Division, (b) All other (except Belgaum), other Mhow Division stations (excluding Jhansi and Jubbulpore Bdes.), Karachi and Aden Bdes. Ward servants, 1 per 6 beds. 1 per 10 beds. beds. Cooks, 1 per 25 beds. 1 per 20 beds. Water carriers, 1 per 20 beds. 1 per 20 beds.</p>	

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
		Ft.	Ft.	Ft.	Sq. ft.		
143	STATION HOSPITALS.						
	HOSPITAL GENERAL BLOCK PLAN.						
	HOSPITAL FOR MEN.					For the number of beds to be provided, see para. 57.	19 Hospital.
	(i) <i>In the plains.</i>						
	Block for 30 beds—						
	2 wards for 12 beds, each	60	24	18	11,944	For the number of attendants' rooms in a hospital, see para. 61.	1 A to F, Hospital.
	1 ward for 4 beds	28	24	18			
	1 ward for 2 beds	15	24	18			
	Day room	16	24	18			
	Attendants' room	16	24	18			
	Scullery	10	10	10		For cleaning feeding utensils. Water from the pipe water supply, if there is one, should be laid on to the lavatory. A separate lavatory in a bath-room should be provided for ophthalmic cases.	
	(c) Lavatory for 5 basins and 3 private bath-rooms in each end verandah.					To be provided with shelves.	
	(b) Latrine of 6 seats	21½	12	8½	8,882		
	Covered passage	10	5	9			
	(e) Lamp-room	21½	12	8½			
	Covered passage	10	5	9			
	Block for 22 beds—						2 and 1 B to F, Hospl.
	Ward for 16 beds	78	24	18		For cleaning feeding utensils.	
	" " 4 "	28	24	18		See remarks against (c) above.	
	" " 2 "	15	24	18			
	Attendants' room	16	24	18			
	Scullery	10	10	10			
	(c) Lavatory for 4 basins and 2 private bath-rooms in each end verandah.						
	(b) Latrine of 4 seats	15½	12	8½	1,280	To be provided with shelves.	
	Covered passage	10	5	9		For a hospital of 100 to 150 beds, the sizes of the kitchen and scullery will be correspondingly increased, and a second cooking-range provided at the cross wall.	10 Hospital.
	(e) Lamp room	15½	12	8½		For a hospital of 150 to 200 beds 2 buildings of this size will be given, and for over 200 beds the accommodation will be increased proportionately.	
	Covered passage	10	5	9			
	(a) Cook-house: for a hospital of 100 beds or less—					Arranged as convenient for the various wards.	133 B. I.
	Kitchen	23½	16	12			1 butted camp, and 2 Hospl. modified.
	Cooking place	16	5	24			
	Scullery	16	12	12			
	Verandah	46½	8				
	(d) Urinaries—						
	4 compartments	6½	10	7	85		
	(ii) <i>In the hills.</i>						
	Block for 20 beds—						
	Ward for 10 beds	51	20	10	6,800		
	" " 6 "	30½	20	10			
	2 wards for 2 beds, each	12	20	10			
	Attendants' room	12	20	10		For cleaning feeding utensils.	
	Day room	12	20	10		Width of lavatory to be 8½'.	
	Scullery	10	10	10			
	(c) Lavatory for 4 basins and 2 bath-rooms in each end verandah.						
	(a) Cook-house	as	in	(i)	1,280	If the blocks are scattered two or more cook-houses may have to be given.	10 Hospl.
	(b) Latrine (for 20 patients)—						
	Privy of 4 seats	14	8½	7	220	...	2 Hospl. modified.
	Passage	10	5	7	80		
	(d) Urinaries	as	in	(i)	85	Arranged as convenient for the various wards.	
	(e) Lamp-room—					For each block of 20 beds.	
	Room	15½	12	10	270		
	Passage	10	5	7	80		

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
148	FOLLOWERS' HOSPITALS.	Ft.	Ft.	Ft.	Sq. ft.	Only authorized, where absolutely necessary, for the A. H. corps and the Indian establishment attached to British troops on the following scale:—	
	(i) <i>In the plains.</i>					Patients.	
	Block for 30 men—					Regiment of cavalry 30	
	2 dormitories for 14 men, each	42	20	13½	5,490	A battery, R. H. A., 15	33 I. I.
	2 small wards, each	12	12	11½		2 batteries or companies, R. F. A. or R. G. A. 15	
	2 bath-rooms	12	12	11½		British mountain battery 6	
	Office	14	14	11¼		Battalion of infantry 15	
	Dispensary	14	14	11¼			
	Hospital store	8	8	8			
	Medical	8	8	8			
	(a) Cook-house	24	14		490	To be divided into 2 compartments, 1 for Mahomedans and 1 for Hindus, with doors at opposite ends.	
	(b) Latrine of 5 seats	15	6		160		
	(c) Washing platform	as in item	209			A raised pucca floor should be given with one drain for urine and a second drain for ablution water, running into iron receptacles, covered with dammer, outside the building; or a corrugated iron latrine for Indians may be given.	
	(ii) <i>In the hills.</i>						
	Block for 30 men—						
	2 wards for 14 men, each	42	20	13½	4,180		
	2 small wards	18½	10	10½			
	Office	18½	10	10½			
	Dispensary	9½	10	10½			
	Ditto	8	10	10½			
	Store-room	9½	8	11			
	2 bath-rooms, each	9½	8	11			
	Subsidiary buildings	as in	(c)			See remarks against (i) above	34 I. I.
149	QUARTERS FOR LADY NURSES.					The distribution of lady nurses by Divisions is given in A.T. Medical.	
	(i) <i>In the plains.</i>						
	Block of 4 quarters—						
	4 combined sitting and bed rooms, each with a floor area of 336 sq. ft.				5,510	A bath room 8' x 8' and a small store room will be provided for each quarter in the verandah.	
	Common dining room	24	15			The common dining room and sitting room are calculated at 90 sq. ft. for each lady nurse in the station.	
	" sitting "	24	15				
	Pantry in verandah	12	8½				
	a) Cook-house—						
	Kitchen	10	12	12	310	For the use of all the lady nurses at one station. To be provided with fittings.	
	Cooking place	5	12	24			
	(f) Servants' quarters—						
	Block of 8 quarters, each	10	8	10	940	2 quarters to each lady.	
	(g) Coach-house—						
	Block of 4 coach-houses, each	12	8	11	560	1 coach-house to each lady.	
	(h) Stalls—						
	Block of 4 stalls, each	12	8	11	560	1 stall to each quarter.	

Item No.	Buildings.	Length.	Breadth.	Height.	Floor area, approximate.	Remarks.	Type plan and series.
		Ft.	Ft.	Ft.	Sq. ft.		
171	QUARTERS FOR INDIAN OFFICERS— <i>concl'd.</i>						
	(v) <i>A battalion in the hills.</i>					See remarks against (iii).	93-I. I.
	Same as for the plains—						
172	QUARTERS FOR MARRIED N. C. OS. AND MEN—						
	(i) <i>A regiment of cavalry.</i>					The authorized number of married men is 60.	
	(a) 3 blocks each of 8 quarters.	...	...	...	2,911	The detached quarter is for the salutri and should be provided near the veterinary hospital.	92-I. I. modified.
	5 blocks each of 7 quarters.	...	...	...	2,552		
	1 block of 1 quarter	...	...	...	393		
	Each quarter containing:—						
	1 room	15	10	13½	} 393	5' of the verandah will be enclosed as a cooking place.	
	8' verandah in front	15	8	9½		The bathing place will be given in the courtyard which is 15' x 14½'.	
	Open bathing place	4	4	4		Separate latrines are not to be given for each quarter.	
	(b) Latrines for women—						
	Scale of seats at 8 per cent. of strength.						
	(ii) <i>A mountain battery in the plains.</i>					The authorized number of married men is 30.	
	(a) 3 blocks, each containing 10 quarters, each:—					5' of the verandah to be enclosed as a cooking place.	
	1 room	12	12	13½	} 3,276	A courtyard 12' x 18' is allowed for each quarter with bathing place in it.	
	8' verandah in front	12	8	9½		See remarks against (i) (b).	
	Open bathing place	4	4	4			
	(b) Latrines for women.				230		
	(iii) <i>A mountain battery in the hills.</i>						
	(a) 3 blocks, each containing 10 quarters, each:—						
	1 room	10	10	12	} 2,060	See remarks against (ii). If the site admits a courtyard 12' x 10' should be given with bathing place 4' x 4' in it.	92-I. I. modified.
	Verandah	10	5	8½		See remarks against (i), (b).	
	Bathing place	4	4	4			
	(b) Latrines for women				230		
	(iv) <i>A battalion in the plains.</i>						
	(a) 4 blocks, each of 20 quarters, each:—						
	1 room	12	12	13½	} 6,528	See remarks against (ii). Accommodation is provided for 80 married men. In the case of Gurkha battalions and of Sikh pioneers accommodation is provided for 240 families, the accommodation for married men being reduced	92-I. I.
	8' verandah in front	12	8	9½			
	Open bathing place	4	4	4			

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.		
173	BARRACKS FOR SINGLE MEN— <i>concl'd.</i>	Ft.	Ft.	Ft.	Sq. ft.				
	(a) Cooking sheds for gunners—								
	3 sheds, each	34	10	9	481	A portion 5' x 5' in each shed to be enclosed as fuel store.	92-I. I. modified.		
	for drivers—								
	2 sheds, each	53	10	9	728				
	1 shed	55	10	9	754				
	(b) Latrines—								
	3 of 8 seats each . . . . .	...	...	...	...	See remarks against (i) (b).	
	(iii) <i>A mountain battery in the hills.</i>								
	3 barracks for gunners, each for—								
	2 N. C. Os., each	10	8	12	3,430				
	36 men, 2 rooms, each	45	20	12					
	Verandahs, front and back	105	5	8					
	3 barracks for drivers, 2 each for:—								
	1 N. C. O.	10	8	12	5,170	See remarks against (ii).	92-I. I. modified.		
	58 men { 2 rooms each	50	20	12					
	{ 1 room	45	20	12					
	Verandah, front	159½	5	8	5,330				
	„ back	148	5	8					
	1 barrack for—								
	1 N. C. O.	10	8	12	5,330				
	60 men, 3 rooms each	50	20	12					
	Verandah, front	164½	5	8					
	„ back	153	5	8					
	Subsidiary buildings	as	in	(ii)					
	(iv) <i>A battalion in the plains.</i>								
	(a) 16 half-company barracks, each for—					Each block accommodates 2 N. C. Os. and 48 men, total 32 N. C. Os. and 768 men. A store-room should be provided in the verandah.	91-I. I.		
	2 N. C. Os., each	12	9½	13½	6,732				
	48 men, 4 rooms, each	36	20	13½					
	9' verandah in front	163	9	8½					
	(b) Band barracks for—								
	1 N. C. O.	12	9½	13½	3,671	When a verandah at the back is also necessary, the verandahs will be 8' wide. The store-room should be under the main roof.	91-I. I. modified.		
	16 men, 2 rooms, each	36	20	13½					
	Store-room	12	9½	13½					
	9' verandah in front	87	9	8½					
	(c) Cooking sheds—								
	8 blocks, each containing—								
	2 sheds, each	45	10	9	1,213	A portion 5' x 5' in each shed to be enclosed as fuel store. Sheds to be built back to back.	92-I. I.		
	For the band 1 shed	16	10	9	164				
	(d) Latrines, 8 of 8 seats each					See remarks against (i) (b).			
	(v) <i>A battalion in the hills.</i>								
	(a) 16 half company barracks, each for—								
	2 N. C. Os. each	10	8	12	4,302	See remarks against (iv).	91-I. I. modified.		
	48 men, 4 rooms, each	30	20	12					
	Verandah in front	138	5	8					
	Store-room	12	8	8	3,848				
	(b) Band barrack for—								
	1 N. C. O.	10	8	12					
	16 men, 2 rooms, each	30	20	12	3,848				
	Store room	10	8	12					
	Verandah in front	71	5	8					
	(c) Subsidiary buildings	as	in	(iv)					

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
163	WELLS OR WATER-SUPPLY.	Ft.	Ft.	Ft.	Sq. ft.		
164	WASHING PLATFORMS FOR HOSPITAL FOLLOWERS.	6	4	...	...	According to local conditions. To be provided where a piped water supply has been installed. Where more than one tap is provided, the dimensions should be proportionately increased.	31
	INDIAN TROOPS.						
	Plan of lines—						
	(i) For Indian cavalry.						
	(ii) For Indian infantry.						94 I. I.
171	QUARTERS FOR INDIAN OFFICERS—						
	(i) A regiment of cavalry—						
	(a) For Risaldar Major, Risaldars and Res-saidars:—						
	8 detached quarters, each containing—						
	2 rooms each	17	12	13½	918	The cookhouse, bathing place, latrine and porch to be provided in the courtyard of each quarter, which is 35½' × 32'.	93-I. I. modified.
	8' verandah in front	35½	8	9½			
	Cookhouse	6	6	8	74		
	Covered bathing place	4	4	7½	30		
	Latrine	6	5	7½	66		
	Covered porch	12	8	9½	165		
	(b) For Jemadars:—						
	9 detached quarters, each containing:—					See remarks against (a). The courtyard in this case will be 31½' × 32'.	93-I. I.
	2 rooms each	15	10	13½	739		
	8' verandah in front	31½	8	9½			
	Cookhouse	6	6	8	74		
	Covered bathing place	4	4	7½	30		
	Latrine	6	5	7½	66		
	Covered porch	12	8	9½	165		
	(ii) A mountain battery in the plains.						
	3 detached quarters, each containing:—					See remarks against (i) (b).	93-I. I.
	2 rooms, each	15	10	13½	739		
	8' verandah in front	31½	8	9½			
	Cookhouse	6	6	8	74		
	Covered bathing place	4	4	7½	30		
	Latrine	6	5	7½	66		
	Covered porch	12	8	9½	165		
	Stables—						
	Block of 3 stalls, each	12	8	9	420	One for each Indian officer. The height of the quarters to be reduced to 9' and the court-yards may have to be omitted for want of space.	93-I. I. modified.
	(iii) A mountain battery in the hills.						
	Same as for the plains.						
	(iv) A battalion in the plains.						
	16 detached quarters, each containing:—					See remarks against (i) (b)	93-I. I.
	2 rooms, each	15	10	13½	739		
	8' verandah in front	31½	8	9½			
	Cookhouse	6	6	8	74		
	Covered bathing place	4	4	7½	30		
	Latrine	6	5	7½	66		
	Covered porch	12	8	9½	165		

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
		Ft.	Ft.	Ft.	Sq. Ft.		
	(v) <i>A detached company S. & M.</i>						
	1 compartment	25	15	10	} 582	.....	2 I. I. modified.
	S. A. ammunition store	10	8	8			
176- A	BAZAR. (i) <i>A regiment of cavalry.</i> —						
	10 houses, each	20	8	10	4,289	A courtyard 10' wide is allowed at the back of each house.	
	20 houses, each	10	8	10	4,587		
	8' verandah in front						
176- B	CAMEL SHED AND BARRACK FOR CAMEL SOWARS.						
	(i) <i>A regiment of cavalry.</i> —						
	Block containing—					The bhoosa khannas to be provided one on each side of camel shed. 4 equipment stores each 4' x 5', to be provided at one end of the room.	89 I. C. modified
	1 shed for 8 camels	86	15	12	1,602		
	2 bhoosa khannas, each	13	10	12	368		
	Barrack containing—						
	1 room for 8 sowars	24	20	13½	1,289		
	8' verandah on both sides.						
177	CARPENTER'S AND COLLARMAKER'S SHOPS. <i>For a mountain battery</i> —						
	Carpenter's shop	20	20	10	} 1,460	A 9' verandah in front.	85 I. M. B.
	Collarmaker's shop	20	20	10			
178	DRAINAGE.					Will be carried out by the corps under proper direction; but if masonry drains are required they will be built by the M. W. S. or P. W. D.	
178- A	DURBAR SHED.						
	(i) <i>A regiment of cavalry.</i> —						
	1 open shed	24	20	10	621		
178- B.	EQUIPMENT STORE AND OFFICE.						
	<i>For a detached company S. & M.</i>						
	3 store rooms, each	30	23	12	} 3,602	A 9' verandah on two sides of office.	
	Office	30	17	12			
	(d) Latrine	2	seats.				
179	FIRE ENGINE SHED.	see item		28			
180	FORGE						
	<i>For a mountain battery</i> —						
	Forge	20	20	10	} 1,070		86 I. M. B.
	Store	8	20	10			
	Shoeing shed	33	9	9			

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate	Remarks.	Type plan and series.
172	QUARTERS FOR MARRIED N. C. OS. AND MEN— <i>concd.</i>	Fl.	Fl.	Fl.	Sq. ft.		
	(b) Latrines for women	..	..	..	..	See remarks against (i) (b).	
	(c) A latrine in the hills.						
	(a) 8 blocks, each of 10 quarters, each—						
	1 room	10	10	12	2,000	See remarks against (iii) and (ir).	92 I. I. modified.
	Verandah	10	5	8½			
	Bathing place	4	4	4			
	(b) Latrines for women	..	..	..	..	See remarks against (i) (b).	
173	BARRACKS FOR SINGLE MEN.						
	(i) A regiment of cavalry.						
	8 half-squadron barracks.					Each room to have an equipment store, not less than 4' x 4' for each jori at the end of the room. Stores will be arranged back to back everywhere.	89-I.C.
	For each squadron—						
	1 barrack containing—						
	6 rooms, each for 8 men, each	24	20	13½	10,136		
	2 rooms, each for 10 men, each	30	20	13½			
	8' verandah on both sides.						
	1 barrack, containing—						
	7 rooms, each for 8 men, each	24	20	13½	10,380		
	1 room for 10 men exclusive of equipment stores.	30	20	13½			
	8' verandah on both sides.						
	(a) Cooking sheds—						
	8 sheds, each	30½	10	9	435	A portion 5' x 5' in each shed to be enclosed as fuel store.	92-I.I. modified.
	(b) Latrines—					A movable type of latrine is to be used, except in places like forts where this cannot be done; in such cases a Horbury or such similar pattern may be used.	
	4 of 10 seats each.						
	(ii) A mountain battery in the plains.						
	3 barracks for gunners each for—						
	2 N. C. Os. each	12	9½	13½	3,656	This accommodation is calculated on the strength of a 10-pr. gun battery, allowing for 30 married N. C. Os. and men. Ends of verandahs should be left open as men will sleep in them during hot weather. A store room 12' x 8' to be given in the verandah of each barrack.	91-I.I. modified.
	36 men, 2 rooms each	54	20	13½			
	8' verandah front and back	126	8	8½			
	3 barracks for drivers—						
	2 each for—						
	1 N. C. O.	12	9½	13½	5,861	In the case of barracks having only one N. C. Os., quarter, the store room should be provided under the main roof.	
	56 men { 2 rooms each	60	20	13½			
	1 room	54	20	13½			
	8' verandah, in front	193½	8	8½	8,105		
	„ back	180	8	8½			
	1 barrack for—						
	1 N. C. O.	12	9½	13½	8,105		
	60 men, 3 rooms each	60	20	13½			
	Verandah, front	199½	8	8½			
	„ back	180	8	8½			

Item No.	Buildings.	Length.	Breadth.	Height.	Floor area, approximate.	Remarks.	Type plan and series.
		Ft.	Ft.	Ft.	Sq. ft.		
190	QUARTER GUARD AND CELLS AND QUARTERMASTER'S STORES.					Existing quartermaster's stores are not to be enlarged unless absolutely necessary, reasons for which must be given. A verandah 8' wide along one side of the quarter guard and cells and, if necessary, of the stores. A verandah is not to be added to existing quarter guards, except under very special circumstances to be fully reported. Each man of the guard is to receive 48 sq. feet.	2 I. I. modified
	(i) <i>A regiment of cavalry—</i>						
	Guard room for 12 men	36	16	12	2,300		
	Cells, 2 each	10	10	12			
	Quartermaster's stores, 2 rooms, each	16	10½	12			
	(ii) <i>A mountain battery in the plains or hills—</i>						
	Guard room	28	12	12	2,200	For the Indian personnel of heavy batteries R. G. A., guard room 14' x 14' for 1 n. c. o. and 3 men, and a lock-up 14' x 10' with 8' verandah in front should be given. If convenient, this accommodation may be provided in the same block as another building.	2 I. I. modified.
	Lock-up	12	12	12			
	Cells, 2 each	10	10	12			
	Quartermaster's store, 2 rooms	16	12	12			
	(iii) <i>A battalion, Peshawar, Rawalpindi, Lahore, Meerut and Lucknow Divisions, Kohat, Bannu, and Derajat Bdes., in the plains or hills—</i>						
	Guard room for 15 men	48	16	12	4,000	This includes accommodation for mobilization stores.	2 I. I.
	Lock-up (2 prisoners)	16	12	12			
	Cells, 2 each	10	10	12			
	Quartermaster's stores—						
	1 room	16	14	12			
	1 „	16	23	12			
	1 „	16	30	12			
	(iv) <i>A battalion, Secunderabad Division.</i>						
	Guard room for 15 men	48	16	12	3,620		2 I. I. modified.
	Lock-up (2 prisoners)	16	12	12			
	Cells and stores	as	in	(iii)			
	(v) <i>A battalion, in stations under the Bombay Government.</i>						
	Guard room for 15 men	48	16	12	3,560		2 I. I. modified.
	Lock-up (2 prisoners)	16	12	12			
	Cells and stores	as	in	(iii)			
	(vi) <i>A detached company S. & M.</i>						
	Guard room	33	16	12	2,425	An 8' verandah in front of the whole building.	2 I. I. modified.
	Lock-up	12	12	12			
	Cells, 2 each	10	10	12			
	Store room	24	12	12			

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
		Ft.	Ft.	Ft.	Sq. Ft.		
96	STABLES— <i>contd.</i>						
	1 stable for 78 mules—						
	2 compartments, each for 20 mules, each .	140	12	7½	} 9,940		
	2 compartments, each for 19 mules, each .	133	12	7½			
	Central passage .	276	4	...			
	(ii) For a 7-pr. gun battery—						
	2 stables each for 70 mules—					The number of animals is:—	
	2 compartments, each for 18 mules, each .	126	12	7½	} 8,930	Ponies	5
	2 compartments, each for 17 mules, each .	119	12	7½		Ordnance mules . . .	127
	Central passage .	248	4	...		Baggage "	80
	1 stable for 72 mules—					TOTAL	212
	4 compartments, each for 18 mules, each .	126	12	7½	} 9,180		
	Central passage .	255	4	...			
	(iii) For a regiment of cavalry—						
	4 stables, each for 78 horses, each .	292½	14	...	} 11,172	For each squadron 154 stalls. Each stall to be 14' x 7½'.	18 B. C.
	Central passage .	294	4	...			
	4 stables, each for 76 horses, each .	285	14	...	} 10,887	Stalls to be arranged in two rows with a central passage 4' wide.	
	Central passage .	286½	4	...			
196-A	STORE ROOMS.						
	(i) For a regiment of cavalry—						
	1 room	45	20	12	1,104		
197	VETERINARY HOSPITAL (OR HORSE INFIRMARY).						
	(i) A regiment of cavalry—						
	2 rooms, each . . .	13	9	13	} 5,990	Boilers required for boiling grain are to be supplied and maintained by the M. W. S.	108 I. C.
	4 compartments, each .	25½	12	13		6½' verandah on three sides.	
	2 slinging rooms " .	13	9	13		Jhamps are also allowed when considered absolutely necessary by the veterinary officer.	
	4 loose boxes " . .	12	8	13		Height at eaves 7'; sides open, walls at ends. In some stations it may be necessary to give side walls and doors for the boxes and stalls.	
	2 " " "	17½	12	13			
	Central passage . . .	112½	4	16½			
	(ii) A mountain battery—						
	6 mule standings, each .	12	7	10	} 1,300		
	4 loose boxes, each .	12	7	10			
	Veterinary store " . .	13	9	10			
	Central passage . . .	42	4	10½			
198	WELLS OR WATER-SUPPLY (WITH TROUGHS FOR ANIMALS AS REQUIRED).					The maximum number of wells for a regiment of cavalry or a battalion would be 5, i.e., 1 for each squadron or double company and 1 for the hospital; for a mountain battery no scale is laid down. Each well should have a broad platform for washing.	

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
181	GRAIN STORE.	Ft.	Ft.	Ft.	Sq. Ft.		
	(i) <i>A regiment of cavalry—</i> 2 rooms each	80	20	12	3,818	To be provided in two blocks.	
	(ii) <i>A mountain battery—</i> Store-room	18	16	10	420		
183	GUN SHED.						
	<i>A mountain battery—</i> Shed	48	24	10½		10' verandah in front.	24A } R. 24B } A.
184	HARNESSE ROOMS. <i>A mountain battery—</i>	as in item		81	(vii)		29A, R.A.
185	MAGAZINE. <i>For a mountain battery</i>	14	14	14	400	The remarks against item 83 apply. For Indian Infantry for small arms ammunition, as in item 109. For Indian Cavalry for small arms ammunition, as in item 48.	
185-A	MAGAZINE FOR EXPLOSIVES. <i>For a detached company S. & M.</i> Magazine Gun cotton store	12 7	12 4	10 10	419	A 6' verandah in front. See para. 48.	
185-B	NIGHT PICQUET GUARD ROOM. <i>A mountain battery.</i> 1 room	36	12	12	605		
186	ORDERLY ROOM AND OFFICE. <i>For a regiment of cavalry or battalion of infantry.</i> Commanding officer's office. Adjutant's office Quartermaster's office 4 rooms for squadron or double company commanders, each.	20 16 16 12½	18 18 18 12	13½ 13½ 13½ 13½	3,769	With a verandah 8½' all round, containing a record room 15' x 7' and a bathroom 7' x 7'. Rent will be assessed under the ordinary rules, subject to a maximum of Rs. 30 per month.	
187	PARADE GROUND.	no	size	laid down.			
188	PIONEER EQUIPMENT STORES. <i>For pioneer battalions only—</i> Store-room	40	18	9	1,580	A 10' verandah on one side only. See remarks against item 176.	
189	PIONEER WORKSHOP. Shed Room for carpenter's tools Room for smith's tools Material store Room for n. c. o. in charge	80 12 12 12 12	20 20 20 20 16	12 12 12 12 12	2,535	For Pioneer battalions only. To be constructed by the corps, or by the Government, as may be decided by the Government.	

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
		Ft.	Ft.	Ft.	Sq. Ft.		
191	REGIMENTAL TRANSPORT BUILDINGS. <i>Only for regiments at Abbottabad, Bannu, Dera Ghazi Khan, Dera Ismail Khan, Kohat and Mardan—</i>						
	(i) <i>Bhoosa shed.</i>					Only an enclosure necessary where 'Bhussars' can be constructed.	
	(ii) <i>Godown for camel gear.</i>					According to actual requirements, and to be built at the grazing rukhs if desired.	
	(iii) <i>Godown for mule gear.</i>					According to actual requirements, allowing 6 square feet floor area per set of harness.	
	(iv) <i>Quarters for transport followers and kahars—</i>					According to actual requirements as the numbers vary.	
	Jemadars, each 1 room	10	10	...	...	Quarters to be built in blocks allowing married quarters for 10 per cent. Verandahs 5' wide to be given in all cases.	
	Dafadars " 1 "	8	10	...	...	Walls to be of sun-dried brick, roofs of mud on matting over steel joists.	
	Married men, each 1 room	12	10	...	...
	Single men, each 50 square feet.						
	(v) <i>Standings for mules.</i>					To be constructed by the transport establishment.	
	(vi) <i>Transport guard room—</i>						
	1 room for 7 men	21	16	12	590	5' verandah in front.	
192	RIFLE RANGE. <i>A regiment of cavalry or a battalion or detached company S. & M.</i>					See para. 49. For a detached company S. and M., only to be provided in cases where no range exists or where an existing range cannot be utilised.	49 A to C, B. I.
194	SOROOOL <i>(i) A regiment of cavalry.</i>						
	1 room	36	20	12½	1,320	Recessed shelves to be provided giving a length of 12' in shelves.	
	10' verandah in front						
195	SHEDS FOR TECHNICAL INSTRUCTION. <i>For a detached company S. & M.—</i>						
	Open shed for storing spars and bridging materials	50	15	12	2,054	To be built in one block.	
	Shed for instructional purposes	50	15	12			
	Grain and bhoosa store	12	10	12			
196	STABLES. <i>(i) For a 10-pr. gun battery—</i>					The sanction of the G. of I. is required. The number of animals is:—	
	2 stables, each for 80 mules, each—					Ponies 5	
	4 compartments, each for 20 mules, each	140	12	7½	10,190	Ordnance mules . . . 153	
	Central passage	283	4	...		Baggage " 80	
						TOTAL 238	

Item No.	Buildings..	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
		Ft.	Ft.	Ft.	Sq. Ft.		
207	KAHARS' HUT. For a regiment of cavalry, mountain battery, or battalion or wing. (i) In the plains. Hut for 4 kahars (ii) In the hills Hut for 4 kahars (iii) For a detached company S. & M.— Hut for 4 kahars	20	12	10	360	To be built near the quarter-guard. Ditto do.	
		20	10	8	320		
		20	12	10	360	To be built near the quarter-guard.	
208	STOVES FOR BURNING DEJECTA.	as	in	item	162		
209	WELL AND WASHING PLATFORM.					Should have a broad and well raised platform, but without roof and screen wall for washing purposes. A separate well for drinking purposes is not usually required. Water will usually be laid on in the hills.	
	LASCARS' QUARTERS.						
210	QUARTERS FOR LASCARS (HIGHER GRADE). (i) For each man 2 rooms each with a 6' verandah (ii) For each man 1 room with a 6' verandah	12	10	13½		Authorized for serangs, tindals, clerks, and 1st class mistris of the S. M. M. establishment. Authorized for 2nd class mistris of the S. M. M. establishment.	
		12	10	13½			
211	QUARTERS FOR LASCARS (LOWER GRADE). (i) For each married man, 1 room (ii) For each single man, floor area	12	10	13½		Authorized for marine, coast defence and lower grade lascars of the S. M. M. Married quarters are to be provided for 10 per cent. of the strength. On Butchers' Island 80 sq. ft. per man in separate huts is allowed as a minimum.	
		6	10	13½			
	SUPPLY AND TRANSPORT CORPS.						
212	BAKERY. (i) Bread store. For a garrison of— 300 men and under 300 to 700 men 700 to 1,000 " 1,000 to 1,400 " 1,400 to 2,000 " (ii) Wheat or flour store. For a garrison of— 300 men and under 300 to 700 men 700 to 1,000 " 1,000 to 1,400 " 1,400 to 2,000 " (iii) Shed for cleaning wheat. For a garrison of— 300 men and under 300 to 700 men 700 to 1,000 " 1,000 to 1,400 " 1,400 to 2,000 "	14	14		310	All windows to open inwards and to be fitted with fine galvanised wire netting. Bread racks should consist of stone uprights, with shelves of galvanised wire netting 2' wide and 1½' apart.	65 S. & T.
		16	16		380		
		18	18		460		
		20	18		510		
		20	20		550		
		14	14	10	310	Intended for 1 month's consumption.	
		16	16	10	380		
		20	18	10	510		
		25	18	10	610		
		30	20	10	790		
		16	14	10	304	When flour is received from an out-station mill, this shed will not be required. It should have open archways on one side.	
		16	16	10	380		
		20	18	10	510		
		25	18	10	610		
		30	20	10	790		

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
		Ft.	Ft.	Ft.	Sq. Ft.		
198-A	WORKSHOPS.						
	(i) For a regiment of cavalry— 3 rooms, each 9' verandah in front.	28	10	10	2,055		
	(ii) For a detached company S. & M.— Blacksmith's shop Carpenter's shop Painter's shop Office and store	30 30 20 20	20 20 10 15	12 12 12 12	2,978	A 10' verandah on one side of smith's shop and a 9' verandah on two sides of office.	
	HOSPITAL BUILDINGS.						
199	HOSPITAL.						
	(i) A regiment of cavalry— 4 wards, each for 8 patients, each 2 small wards, each 2 bath rooms Office Dispensary Hospital store Medical store	24 12 12 14 14 8 8	20 12 12 14 14 8 8	13½ 11½ 11½ 11½ 11½ 8 8	6,330	The following scale of beds is authorized :— Beds. For a regiment . 32 " head-quarter wing 18 " detached " 14 " head-quarters with squadron detached 24 " a squadron . 8 The accommodation per patient is 60 square feet and 810 cubic feet. An 8' verandah all round containing the small wards, bath and store rooms. The plinth to be raised 3' in dry and 5' in damp climates. If the soil retains much moisture, a vaulted basement to be given. Permanent floors and doors as for British barracks to be given. Wire netting may be given to the windows if required by the A. D. M. S. Wards will, when practicable, be set aside for the treatment of eye cases and prisoners.	30 I. C.
	(a) Cook-house— Cook-room for Hindus " " Mahomedans.	18 18	14 14	.. ..	690		
	(b) Latrine (8 seats)	24	6	..	240	A raised pucca floor should be given with one drain for urine and a second drain for ablution water, running into iron receptacles covered with dammer, outside the building; or a corrugated iron latrine may be given.	
	(ii) A mountain battery in the plains— 1 ward for 8 patients. 1 " " 6 " 2 small wards 2 bath-rooms Office Dispensary Hospital store Medical store	24 18 12 12 14 14 8 8	20 20 12 12 14 14 8 8	13½ 13½ 11½ 11½ 11½ 11½ 8 8	4,550	The authorized scale of beds is 14. See remarks against (i).	33 I. I. modified.
	(a) Cook-house— Cook-room for Hindus " " Mahomedans	9 9	7 7	.. ..	220	See remarks against item 148(a)	
	(b) Latrine, 3 seats	9	6	..	110	See remarks against (i) (b).	

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
		Ft.	Ft.	Ft.	Sq. ft.		
213	CATTLE AND SHEEP YARDS.						
	(i) <i>Cattle shed.</i>						
	Shed for 40 cattle .	72	22	10	1,920	The sheds should be of temporary construction with impermeable floors. Eight bullocks or forty sheep are sufficient for one day's supply for 1,000 men. Mud walls 5' high all round. Ditto ditto.	2 B, S. & T.
	(ii) <i>Sheep shed.</i>						
	Shed for 200 sheep .	same	as	above	1,920		
	(iii) <i>Yard for cattle and sheep</i>	no	size	laid	down		
	(iv) <i>Yard for fodder.</i>		ditto				
	(v) <i>Well with watering trough.</i>						
	(vi) <i>General enclosure</i>	no	size	laid	down	Plenty of space should be allowed for the cattle to move about in.	126 B.C.
213-A	GUARD ROOM.						
	(i) <i>For bullock transport—</i>						
	Guard room	14	15	12	500	To be built in the same block as quartermaster's stores.	
	10' verandah in front.					For 3 to 4 or 5 to 6 half-troops.	
213-B	OFFICE.						
	(i) <i>For bullock transport—</i>						
	1 room	10	15	13½	428	To be built in the same block as quartermaster's store.	
	10' verandah in front.					For 3 to 4 or 5 to 6 half-troops.	
213-C	QUARTERMASTER'S STORES.						
	(i) <i>For bullock transport—</i>						
	(a) For 3 to 4 half troops—						
	Store room for—						
	Half mounting clothing stock and repairing gear	10	15	12	} 704		
	Grain store	10	15	12			
	10' verandah in front.						
	(b) For 5 to 6 half troops—						
	Store room for—						
	Half mounting clothing stock and repairing gear	15	15	12	} 991		
	Grain store	15	15	12			
	10' verandah in front.						
213-D	SICK LINES.						
	(i) <i>For bullock transport—</i>						
	(a) For 3 to 4 half troops—						
	Pharmacy	10	10	12	} 615		
	Open shed, with standings for 4 animals, each	12	7	10			
	(b) For 5 to 6 half troops—						
	Pharmacy	12	12	12	} 878		
	Open shed, with standings for 6 animals, each	12	7	10			

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
201	ENCLOSURE WALL OR FENCE.	Ft.	Ft.	Ft.	Sq. Ft.	As required, a wire fence as being less costly is suitable. Not generally given in the hills. Is not now usually required. The G. O. C. will decide as to the necessity for its provision.	
202	HOSPITAL GUARD-ROOM. <i>In the plains or hills.</i> <i>For a regiment of cavalry, a mountain battery, or battalion</i>						
203	Room for 4 men MORTUARY. <i>In the plains or hills.</i> <i>For a regiment of cavalry, a mountain battery, or a battalion—</i>	16	12	12	490		
204	A room QUARTERS FOR SUB-ASSISTANT SURGEONS. <i>In the plains or hills.</i> (i) Senior sub-assistant surgeon and sub-assistant surgeon, 1st grade— Room " Bath-room Verandah Enclosure wall of courtyard Shed for cooking-pots, etc. Latrine (ii) Sub-assistant surgeon, 2nd and 3rd grades— Room Bath-room Verandah Enclosure wall of courtyard Shed for cooking-pots, etc. Latrine	12 16 12 8 29½ 46 7½ 6 16 8 16 61½ 7½ 6	12 12 6 6 6 1½ 5 5 12 6 6 1½ 5 5	12 12 12 8½ 8½ 8 8½ 8½ 12 8½ 8½ 8 8 8	340 760 70 120 480 90 120	Two sub-assistant surgeons are authorized for each regiment of cavalry or infantry and 1 for each mountain battery or detached company S. and M. In the hills the height of the main rooms will be reduced to 10', and if the site will not admit of it the courtyard may be omitted. A portion of the verandah is to be divided off with an open brickwork wall to form a cooking-place. An open courtyard 29½' x 17½' containing the latrine and shed for cooking-pots, water, etc. See remarks against (i). An open courtyard 32' x 16' containing the latrine and shed for cooking pots, water, etc.	11 I. I.
205	QUARTERS FOR HOSPITAL SERVANTS. (i) <i>In the plains.</i> For each married man, a separate quarter For each single man, floor area (ii) <i>In the hills.</i> For each married man, a separate quarter For each single man, floor area	12 6 10 5	10 10 8 10	10 10 8 8		For scale see A. T. of the unit. One-third are to be provided for as married men and two-thirds as single men; the quarters for the latter should be divided into rooms to meet the different castes. If the single men's accommodation cannot be combined, it may be necessary to increase the size somewhat.	
206	QUARTERS FOR WARD ORDERLIES. <i>For a regiment of cavalry, a mountain battery, or a battalion.</i> (i) <i>In the plains.</i> 1 married man's quarter Room for 3 single men. (ii) <i>In the hills.</i> 1 married man's quarter Room for 3 single men	12 18 10 15	10 10 10 10	10 10 8 8	440 380	Only to be provided at discretion of the O. C. the station when the hospital is at a considerable distance from the lines.	

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
222	WELL FOR TRANSPORT LINES.	Ft.	Ft.	Ft.	Sq. Ft	Drinking trough will be required.	126 B.
223	WORKSHOPS	To be built in the same block as quartermaster's store.	
	(a) For 3 to 4 half troops— Blacksmith's shop . . . Carpenter's shop . . . 10' verandah in front.	20 20	15 15	12 12	1,279	To be open in front. A store 8' x 6' for tools to be provided in a corner of each shop.	
	(b) For 5 to 6 half troops— Blacksmith's shop . . . Carpenter's shop . . . 10' verandah in front.	30 30	15 15	12 12			
	DAIRY FARM BUILDINGS.				1,854	For other units the sanction of Government of India is required.	
224	MANAGER'S, ASSISTANT MANAGER'S, OVERSEER'S AND ASSISTANT OVERSEER'S QUARTERS— (Warrant or n. c. o. on unattached list)	The provision of quarters will be governed by A. R., I. Vol. II, para. 443. If the manager or overseer is a warrant or n. c. o. on the unattached list he is entitled to Class D. quarters as in item 10 with subsidiary buildings, except stable, which latter will be provided with the other farm buildings.	
225	OFFICE.						
	(i) In the plains. Manager's room . . . Clerk's room . . .	3 units 1 unit	15 15	...	...
		p e r clerk and 1 unit r e c o r d s - p a n s i o n .					
	Record room . . .	2 units	15	...			
	(ii) In the hills. Manager's room . . . Clerk's and record room.	3 units . 1 unit	12 12	...	...
		p e r clerk, 2 units for records and 1 unit for expansion.					
226	DAIRY OR BUTTER FACTORY.	according to local conditions					

Item No.	Buildings.	Length.	Breadth.	Height.	Plinth area, approximate.	Remarks.	Type plan and series.
214	STORE ROOMS.	Pl.	Pl.	Pl.	Sq. Ft.	Each case requires the sanction of the G. of I. Saddle rooms should be included in gear stores.	
	(i) Store room for transport gear . . .	10	10	14 ft down			
	(ii) Store room for kerosine oil . . .			ditto			
	(iii) Store room for malt liquor . . .			ditto		Imported malt liquor is to be stored in well built rooms with pucca floors, sloped to carry off the water. At hill stations, this is unnecessary. Ditto ditto.	
	(iv) Store room for rice . . .						
215	INFIRMARIES FOR TRANSPORT ANIMALS.					Each case requires the sanction of the G. of I. Accommodation should be provided for 10 per cent. of the strength.	
216	TRANSPORT OFFICE					Requires the sanction of the G. of I.	
217	SHEDS FOR TRANSPORT CATTLE.					For scale see A. T. Transport. Extreme width of a cart is 5' 10" and length, including poles, 13' 8", but poles can overlap.	
218	SHEDS FOR BREAD CARTS.						
	For one cart . . .	14	10	11	200	Sheds for bread carts are authorized; 1 cart should be allowed per regiment or detachment.	
219	SHEDS FOR MEAT CARTS.						
	Same as for bread carts . . .	...	...	...	200	Same as above.	
220	SHEDS FOR BULLOCKS FOR BREAD AND MEAT CATTLE.						
	Space per bullock . . .	12	6	...	...	2 bullocks to each cart.	
221	SLAUGHTER HOUSE AND YARD.						
	(i) Slaughter stand . . .	A pucca platform 15' wide, length varying according to requirements, raised a few inches above ground level and sloping into a shallow saucer drain about 2' wide and 1' deep, running into a pucca tank outside the enclosure.					70 S. & T.
	(ii) The gallows . . .	Consists of posts let into the ground near the slaughter stand at intervals of 6', and connected 8' above ground by stout wooden bars, from which the carcasses will hang. A broad shallow drain to be constructed the whole length of the gallows connecting with the pucca tank outside.					
	(iii) The meat hanging house.	Should be built near the slaughter stand in a corner of the enclosure, with a door in the outside wall for the issue of the meat. Width 16', height 16', and length according to number of carcasses to be stored allowing 3' for each bullock and 1' for each sheep. Shed to be well ventilated, open in front, with windows in the back wall. Gallows to be given in the meat shed and a pucca floor and drain communicating with the same reservoir outside.					
	(iv) Cess-pools and offal pits.	The reservoir mentioned above is intended merely as a temporary receptacle, and it is necessary that blood and offal should be removed to a distance.	
	(v) Well.	As required.	
	(vi) Enclosure wall		

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227	QUARTERS FOR EUROPEAN DAIRYMEN, EUROPEAN CATTLE YARD OVERSEER.	Pl.	Pl.	Pl.	Sq. Ft.		
	(i) <i>In the plains</i>						
	Each, 1 room	14	14	11	1,325	With 9' verandah all round containing 1 bath-room 8' x 8' and 1 godown 8' x 8'.	
	Subsidiary buildings	10	10	9	170	Sleeping accommodation should be given in two rooms. When more than three men are employed at a farm the accommodation should be provided on the following scale:—	
	Cook-house for each	10	10	9	155	90 sq. feet per man in dormitory.	
	Servant's quarter for each					Dining room, 12' x 20'. Lavatory with two or more bathing compartments. 2 godowns, each 8' x 8'. 1 cookhouse, 10' x 10'. 2 servants' quarters, each 12' x 10'.	
	(ii) <i>In the hills.</i>						
	Each, 1 room	14	14	12	...	Clerestory windows to be given. With 9' verandah all round containing 1 bath-room 5' x 8' and 1 godown 8' x 8'.	
	Subsidiary buildings	as	in	(i)		Clerestory windows to be given.	
228	WATER SUPPLY . . . . .	...	...			At stations where a pipe water supply has been installed, water will be laid on to the dairy farm, wherever feasible. Troughs to be provided for animals as required, with a pukka platform, 9 ft. wide, round the troughs.	
229	ROADS					Main roads to be metalled.	
	GRASS FARM BUILDINGS.						
230	MANAGER'S, ASSISTANT MANAGER'S, OVERSEER'S AND ASSISTANT OVERSEER'S QUARTERS.	as in item 224					
231	OFFICE	as in item 225 (i) and (ii)					
232	GODOWN	size according to local conditions.					
233	WATER SUPPLY					Should usually be obtained from wells.	

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